

NEURALBEY

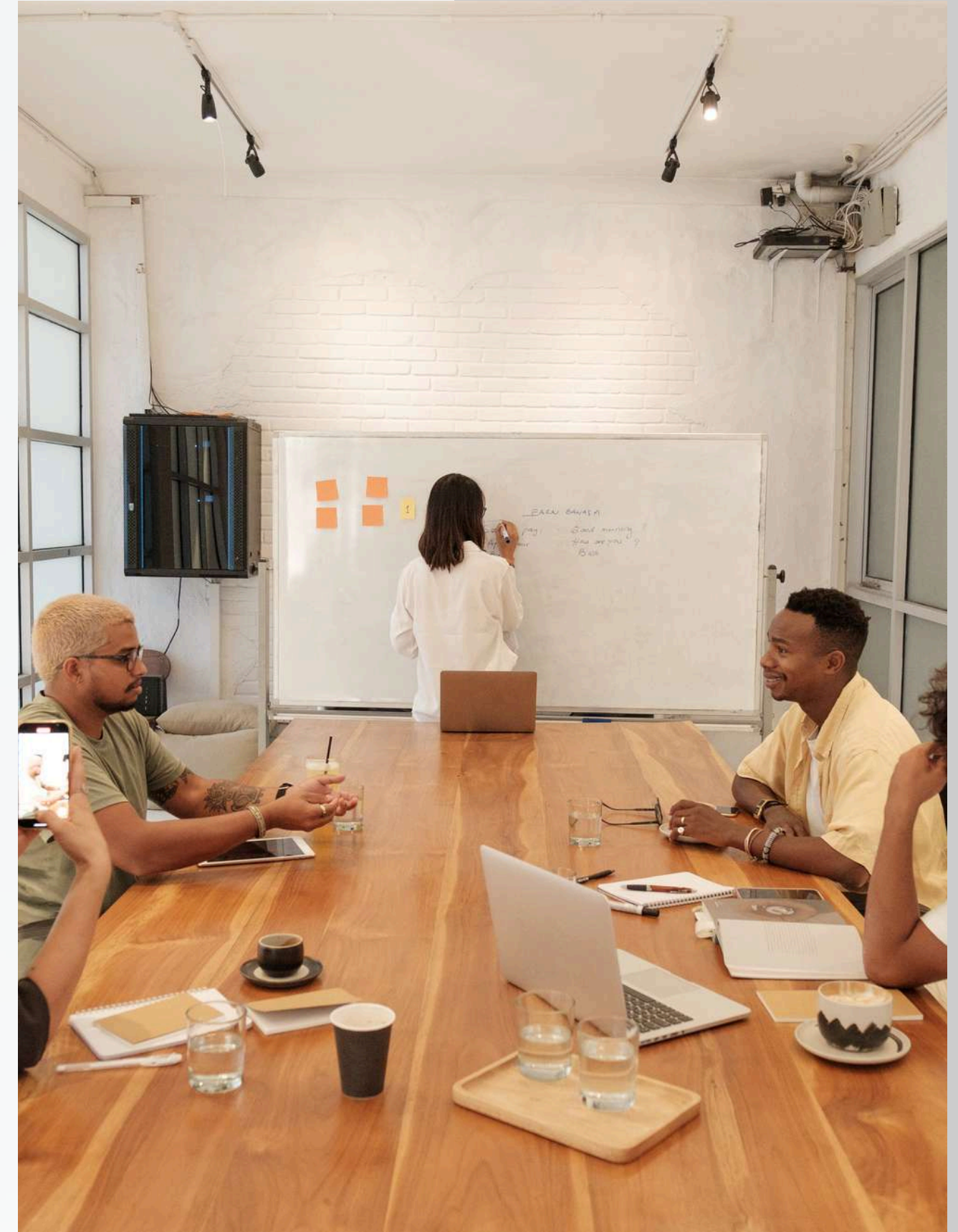
PFE BOOK 2026

NEURALBEY.COM

ABOUT US

Neuralbey is a specialized company that focuses on cutting-edge technologies such as machine learning, software development, IoT, and robotics. We provide customized solutions to help our clients achieve their goals with greater efficiency and accuracy. At Neuralbey, we are dedicated to creating innovative technologies that drive progress and improve the way we live and work.

📍 Menzel Ennour , Monastir



WHAT WE OFFER

- Real-world experience working on impactful projects with cutting-edge technologies.
- Mentorship from experienced professionals who are leaders in their fields.
- A collaborative work environment that encourages creativity, problem-solving, and personal growth.
- The opportunity to work on projects that aim to solve meaningful problems and contribute to a better, more connected future.
- A pre-hire internship, with the potential for full-time employment after the internship period, based on performance.

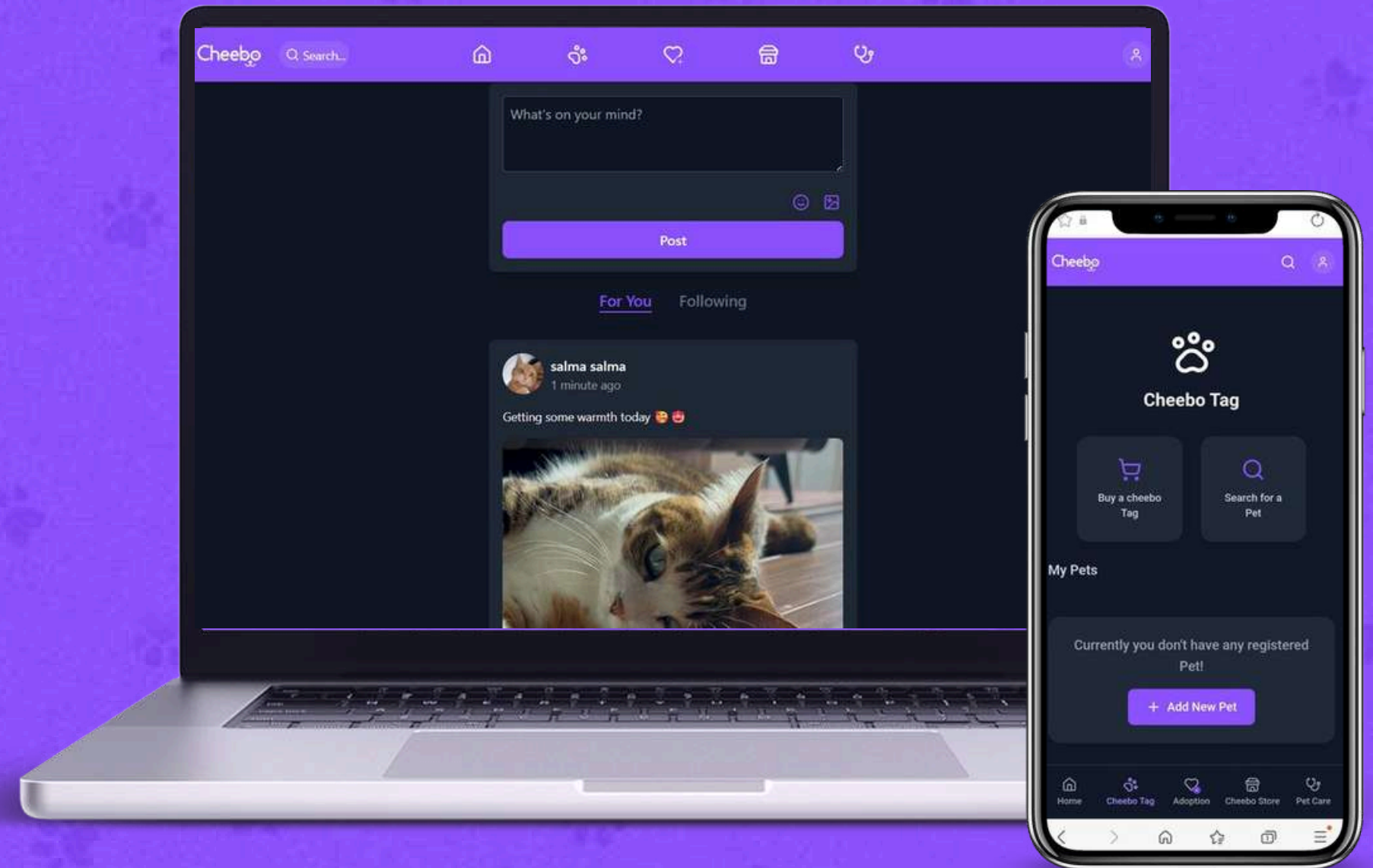


HOW TO APPLY?

Send your CV and project title to internship@neuralbey.com.



Our Latest Product



<https://cheebo.pet>



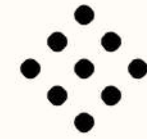
What is Cheebo ?

A user-friendly ecosystem designed to directly address these challenges. It serves as a comprehensive ecosystem for pet owners. By uniting technology and community support within this ecosystem, our app:

- Simplifies lost pet recovery via a collar with unique identifier.
- Streamlines pet care with resources and tips.
- Provides instant access to nearby veterinarians with online appointments.
- Offers an integrated online pet store.
- Pet adoption section

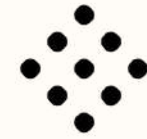
Cheebo





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Projects



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Graphic Design



Project 1: UX/UI Design for Mobile App and Website

Objective: The objective of this project is to enhance the user experience and interface of mobile application and website through a comprehensive rebranding process.

1- Research and Analysis:

- Conduct user research to understand current user pain points and preferences.
- Analyze competitors to identify industry trends and best practices.
- Gather feedback from stakeholders to align the rebranding goals with business objectives.

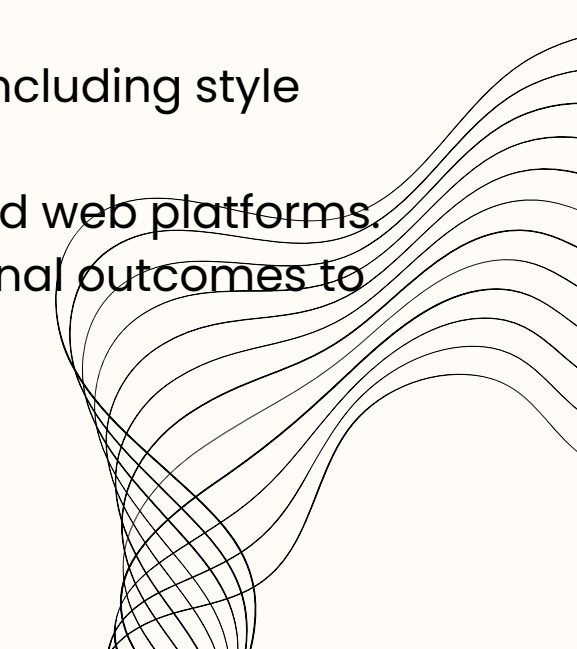
2- Design Process:

- Develop user personas to represent target audiences.
- Create user journey maps to visualize the user experience.
- Design wireframes and prototypes for both the mobile app and website.
- Implement a modern and premium visual style that reflects the brand's values.

3- Testing and Iteration:

- Conduct usability testing with real users to gather insights on the design.
- Iterate on designs based on feedback to improve usability and aesthetics.
- Finalize the design and prepare for development handoff.

4- Deliverables:

- Comprehensive design documentation including style guides, user flows, and prototypes.
 - High-fidelity mockups for both mobile and web platforms.
 - Presentation of the design process and final outcomes to stakeholders.
- 



Project 2: Graphic Design for Social Media and Branding

Objective: The goal of this project is to create visually appealing and cohesive graphic designs for social media platforms, logos, mockups, product branding, and packaging.

1- Brand Identity Development:

- Define the brand's mission, vision, and values to inform design choices.
- Create a logo that encapsulates the brand's identity and resonates with the target audience.
- Develop a color palette and typography that align with the brand's personality.


2- Social Media Design:

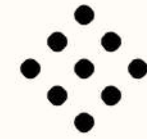
- Design a series of social media posts that promote engagement and brand awareness.
- Create templates for consistent branding across various platforms.
- Develop eye-catching graphics for campaigns, announcements, and promotions.

3- Product Branding and Packaging:

- Design packaging that reflects the brand's identity and appeals to consumers.
- Create mockups to visualize how the product will look in real life.
- Ensure that all designs are practical and meet production requirements.

4- Deliverables:

- A complete brand identity package including logo, color palette, and typography guidelines.
 - A collection of social media graphics and templates.
 - Mockups and designs for product packaging.
- 



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Mobile Development



Flutter Projects

Your Mission as a Flutter Intern

As a Flutter intern, you will:


- Contribute to the development and optimization of the apps using Flutter.
- Work closely with the team to design, build, and maintain new features and modules.
- Ensure the app delivers a seamless user experience across Android and iOS platforms.
- Identify and resolve bugs to ensure smooth app functionality.
- Participate in brainstorming sessions to improve and expand capabilities.

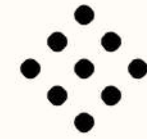
Key Objectives

- Build and enhance responsive and intuitive UI/UX components for the app.
- Implement features for various modules.
- Optimize app performance by writing clean, efficient, and maintainable code.
- Integrate APIs to ensure seamless communication between the app and backend services.
- Perform rigorous testing to deliver a bug-free and reliable mobile experience.
- Stay updated with Flutter best practices and contribute to improving development workflows.

Who Should Apply?

We're looking for passionate Flutter interns who:

- Have hands-on experience with Flutter and Dart (personal or academic projects count!).
 - Are familiar with integrating RESTful APIs and third-party libraries.
 - Understand state management (e.g., Provider, Riverpod, Bloc, or GetX).
 - Have a good eye for UI/UX design and attention to detail.
 - Are self-motivated, team players, and eager to learn and grow.
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Devops

Devops Internship



Your Mission as a DevOps Intern

As a DevOps intern, you will:

- 1- Monitor and maintain Servers to ensure uptime, performance, and security.
- 2-Deploy and manage our websites and services hosted on the VPS.
- 3-Implement automated backups and disaster recovery solutions.
- 4-Optimize server performance for better resource utilization.
- 5-Ensure security by applying updates, patches, and best practices to safeguard our systems.
- 6-Collaborate with our development team to support website deployments and updates.

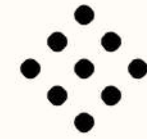
Key Objectives

- 1-Manage and maintain our Linux-based VPS infrastructure.
- 2-Troubleshoot server and website issues to minimize downtime.
- 3-Set up and configure web servers like Nginx or Apache for hosting websites.
- 4-Ensure secure access through SSH, and manage firewalls to block unwanted access.
- 5-Monitor server performance and implement scaling solutions when needed.
- 6-Create documentation for VPS and website maintenance processes.

Who Should Apply?

We're looking for graduation students who:

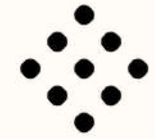
- Have a background in Computer Science, IT, or a related field.
- Are familiar with Linux/Unix systems and command-line tools.
- Understand web server configurations (Nginx/Apache) and database management (MySQL/PostgreSQL).
- Have knowledge of DNS, SSL, and domain management.
- Are eager to learn about DevOps tools like Docker, Jenkins, or Ansible (bonus points if you already know them!).
- Possess excellent troubleshooting and problem-solving skills.



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Web Development

Project



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Mission

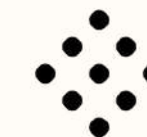
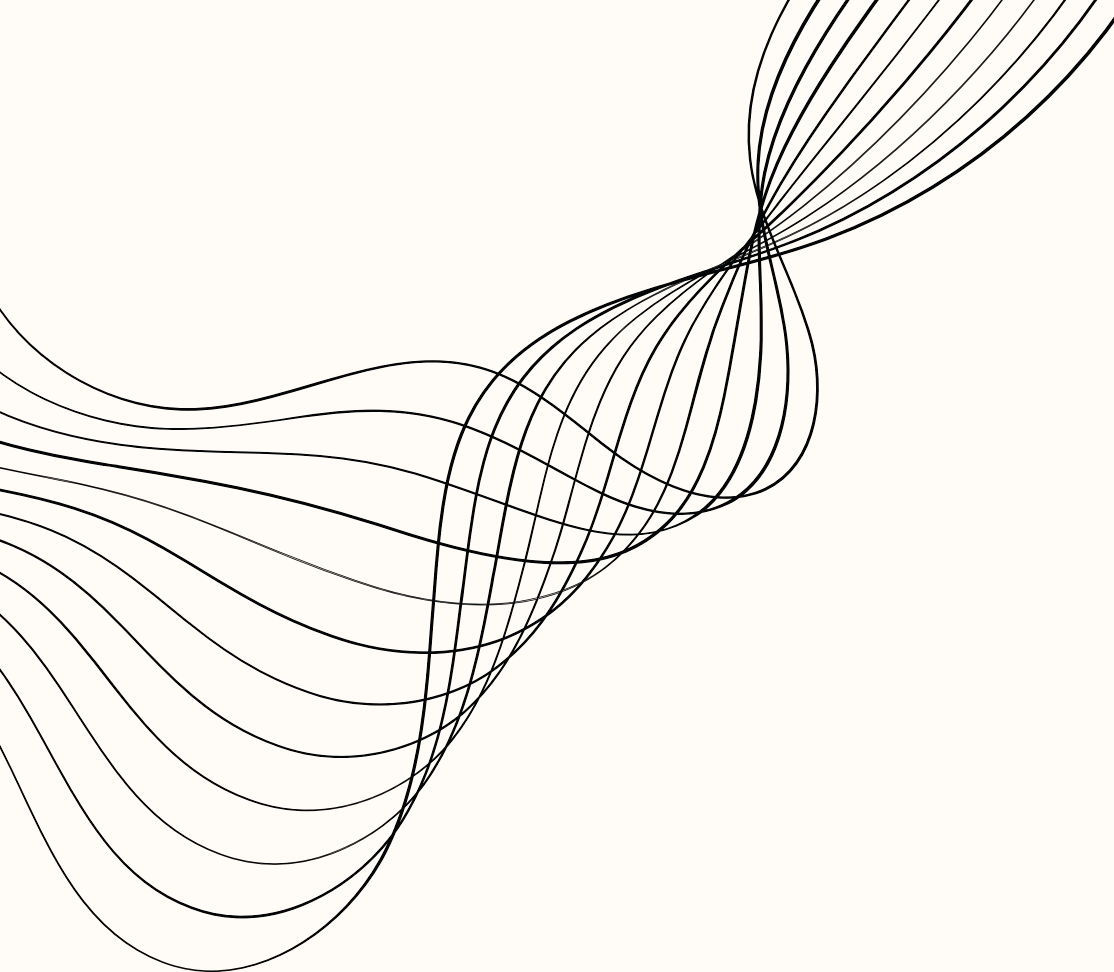
As a web developer intern, your mission is to design, develop, and maintain scalable, user-friendly, and feature-rich web applications. You will contribute to the company's digital ecosystem by implementing innovative solutions, ensuring a seamless user experience, and supporting the growth and optimization of the company's online platforms.

Key Objectives

- **Develop interactive and user-friendly web application features to enhance engagement and usability.**
- **Build a scalable and efficient backend system for data management, user authentication, and application logic.**
- **Integrate real-time functionalities, such as notifications and messaging, to improve responsiveness.**
- **Optimize media and data handling to ensure fast loading, efficient storage, and smooth performance.**
- **Ensure application security through secure authentication, encrypted data storage, and protected APIs.**
- **Prepare clear and detailed documentation for the application's architecture, API endpoints, and database schema.**

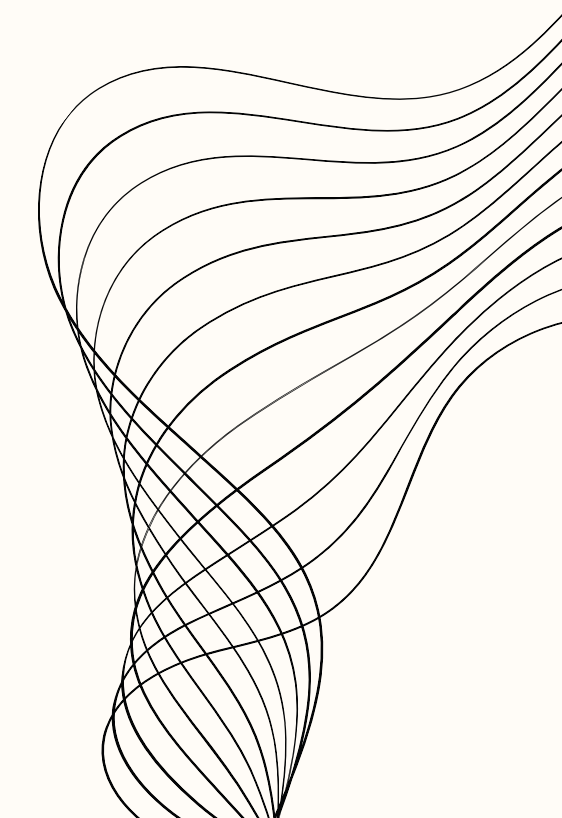
Who Should Apply

- Individuals with strong foundational knowledge in some of these web development technologies such as JavaScript, React.js, Node.js, FastAPI, Django, MongoDB, PostgreSQL, and MySQL.
- Enthusiasts passionate about full-stack development and building scalable, community-driven applications.
- Candidates with experience in developing responsive web applications and implementing RESTful APIs.
- Bonus: Knowledge of real-time communication technologies such as WebSockets or Socket.IO.
- Familiarity with version control systems like Git and experience deploying applications on cloud platforms such as AWS, DigitalOcean, or similar is a plus.

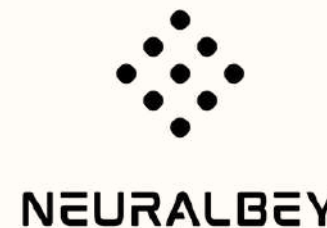


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AI



Project 1 : Machine Learning & Deep Learning – Computer Vision



As a Computer Vision intern, you will:

- Contribute to the design and development of Machine Learning and Deep Learning models for image and video analysis.
- Work closely with the AI team to build, train, and optimize Computer Vision solutions.
- Implement models for tasks such as image classification, object detection, and visual recognition.
- Analyze datasets, preprocess data, and improve model accuracy and robustness.
- Participate in brainstorming sessions to explore innovative AI use cases and improve system capabilities.

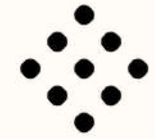
Key Objectives

- Develop and train Deep Learning models using frameworks such as PyTorch or TensorFlow.
- Implement Computer Vision pipelines using tools like OpenCV and modern architectures (CNNs, YOLO, Vision Transformers).
- Optimize model performance in terms of accuracy, speed, and scalability.
- Integrate trained models into applications via APIs or services.
- Perform model evaluation, testing, and validation using appropriate metrics.
- Stay up to date with the latest Computer Vision and AI best practices.

Who Should Apply

- IHave hands-on experience with Python and Machine Learning.
- Are familiar with Deep Learning frameworks (TensorFlow, PyTorch, or Keras).
- Have experience or strong interest in Computer Vision techniques.
- Understand model evaluation metrics and basic data preprocessing.
- Are curious, analytical, and eager to learn in a research-driven environment.

Project 2 : Machine Learning & Deep Learning – Natural Language Processing (NLP)



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As an NLP intern, you will:

- Contribute to the development of Natural Language Processing solutions using Machine Learning and Deep Learning.
- Work with the AI team to design, train, and fine-tune language models.
- Build NLP systems for text classification, sentiment analysis, NER, and conversational AI.
- Prepare and preprocess textual datasets for training and evaluation.
- Participate in brainstorming sessions to improve language understanding and automation capabilities.

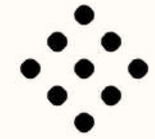
Key Objectives

- Develop and fine-tune NLP models using modern architectures (Transformers, BERT, GPT).
- Implement text preprocessing, tokenization, and feature extraction pipelines.
- Optimize model performance using suitable NLP evaluation metrics.
- Integrate NLP models into applications through APIs or microservices.
- Test, evaluate, and improve NLP systems for accuracy and reliability.
- Stay updated with the latest NLP research and best practices.

Who Should Apply

- Have experience with Python and Machine Learning fundamentals.
- Are familiar with NLP libraries (Hugging Face, spaCy, NLTK).
- Understand Deep Learning concepts and transformer-based models.
- Have interest in text processing, language understanding, and AI systems.
- Are motivated, autonomous, and willing to grow in an AI-focused environment.

Project 3 : AI Agents & Workflow Automation (LLMs, n8n, Integrations)



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Mission:

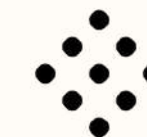
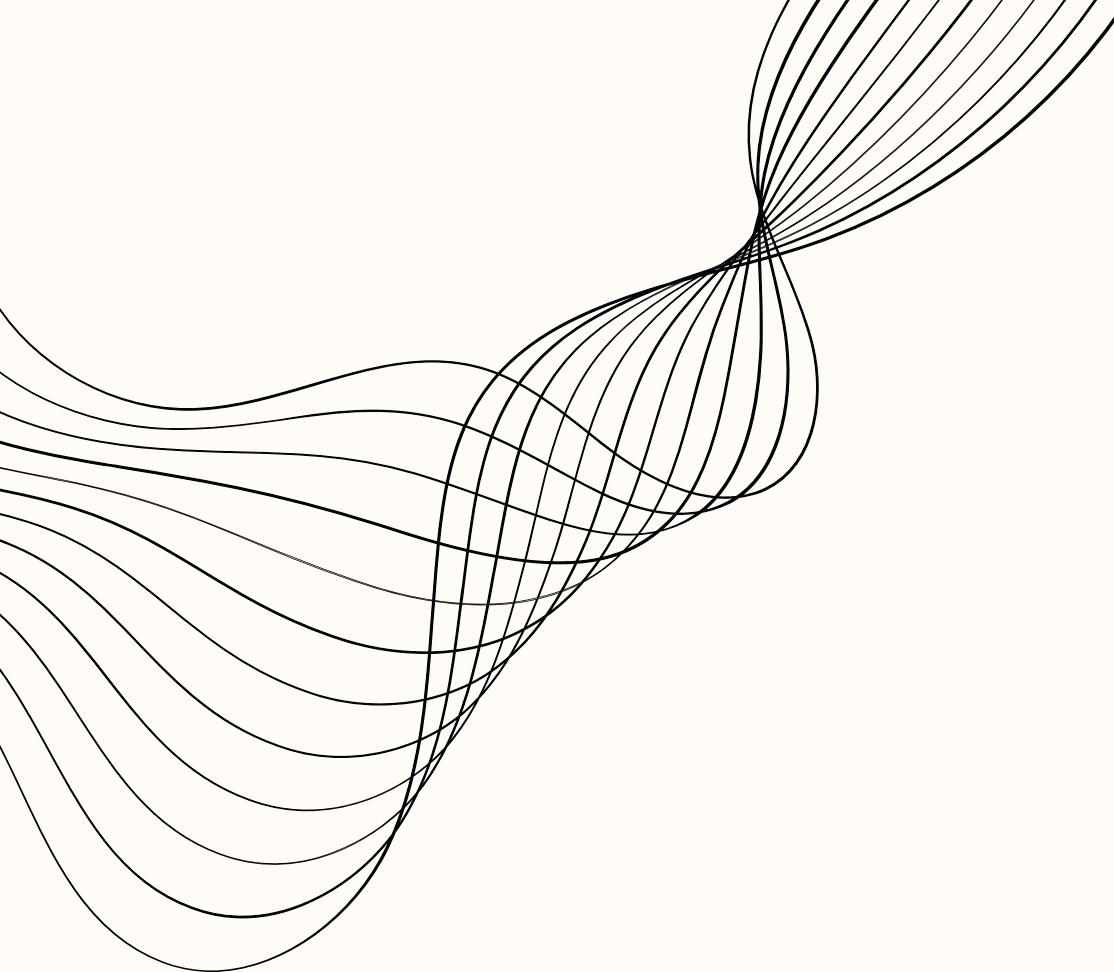
- Design and build AI agents capable of reasoning, decision-making, and task automation.
- Work with LLMs (Large Language Models) to orchestrate multi-step workflows.
- Create and manage automated workflows using tools such as n8n.
- Integrate AI agents with external services (APIs, databases, CRMs, messaging platforms).
- Collaborate with the team to identify automation opportunities and improve operational efficiency.

Key Objectives

- Design agent architectures using LLMs, tools, and memory.
- Build automated workflows for data processing, notifications, and decision support.
- Connect AI agents to third-party services (REST APIs, webhooks).
- Implement prompt engineering and agent logic for reliable outputs.
- Monitor, test, and optimize agent performance and execution flows.
- Ensure scalability, security, and maintainability of automation pipelines.

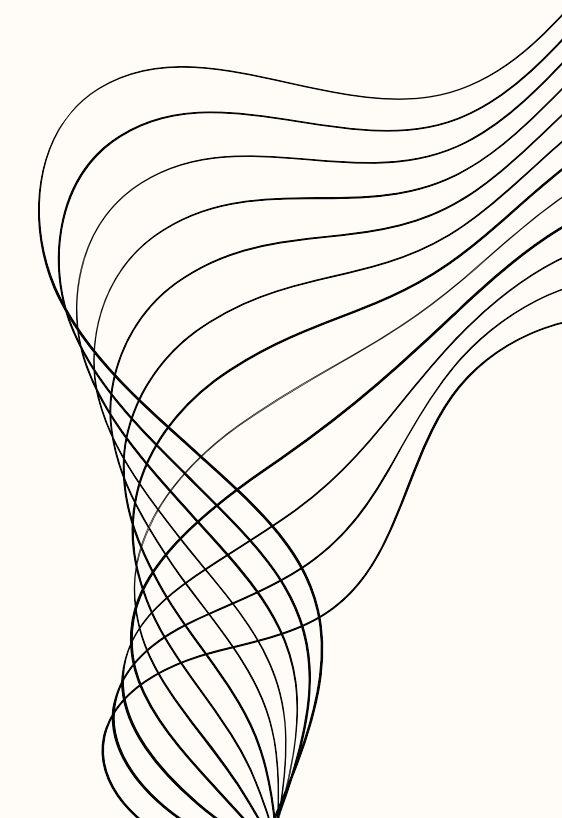
Who Should Apply

- Have a strong interest in AI automation and intelligent systems.
- Are familiar with LLMs and prompt engineering concepts.
- Have experience or curiosity about n8n, Zapier, Make, or similar automation tools.
- Understand APIs, webhooks, and basic backend concepts.
- Are proactive, logical thinkers who enjoy building end-to-end automated solutions.



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IOT



IOT Internship



Your Mission as an IoT Intern

As an IoT intern, you will:

- Develop and integrate GPS-based systems for real-time tracking and monitoring.
- Build and optimize real-time interaction systems between devices and servers.
- Design, create, and deploy IoT servers and manage hosting environments.
- Collaborate on hardware-software integration for innovative IoT products.
- Troubleshoot and resolve issues related to IoT devices, servers, and communication.

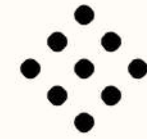
Key Objectives

- Work on projects like tracking and livestock monitoring, involving location-based data and real-time alerts.
- Build scalable backend servers to handle IoT device communication and data storage.
- Implement real-time communication protocols (e.g., MQTT, WebSockets).
- Ensure robust device-to-cloud communication and optimize data processing.
- Maintain security by applying encryption, secure access, and data protection measures.
- Create documentation for system architecture, device communication, and server configurations.

Who Should Apply?

We're looking for IoT enthusiasts who:

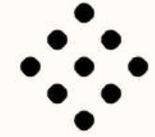
- Have knowledge of microcontrollers (e.g., Arduino, ESP32).
- Are familiar with IoT communication protocols (e.g., MQTT, HTTP, WebSockets).
- Understand GPS integration and real-time data processing.
- Have programming skills in Python, C/C++, or JavaScript (Node.js preferred).
- Are problem-solvers and passionate about combining hardware and software for innovative solutions.



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Marketing

Marketing Intern Position



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Mission

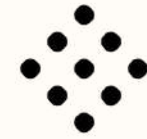
At Neuralbey, our mission is to create innovative solutions that make a difference in the lives of pet lovers. Our flagship project, Cheebo, is an all-in-one ecosystem designed to enhance pet care and simplify the lives of pet owners. As a Marketing Intern, you will play a key role in spreading the word about Cheebo and engaging with our growing community to drive growth and awareness.

Key Objectives

- Content Creation: Develop and manage engaging content, including blog posts, social media updates, and videos, to boost brand visibility and engagement.
- Video Production: Create and edit promotional and educational videos that effectively communicate the features and benefits of Cheebo and our other products.
- Campaign Management: Assist in planning and executing marketing campaigns across various platforms, including social media, email newsletters, and digital ads.
- Community Engagement: Help build and maintain relationships with influencers, partners, and our community through consistent communication and content sharing.
- Market Research & Analysis: Track and report on campaign performance, conduct competitor analysis, and suggest improvements to optimize marketing strategies.

Who Should Apply

- Is passionate about marketing and content creation, with a flair for writing and storytelling.
- Has a strong creative mindset and enjoys creating engaging videos and multimedia content.
- Is familiar with video editing software (e.g., Adobe Premiere, Final Cut Pro, or similar) and social media platforms.
- Has basic graphic design skills (Canva, Adobe Suite, or similar tools) to support visual content creation.
- Is self-motivated, proactive, and eager to learn in a fast-paced, start-up environment.
- Bonus: A passion for pets or technology will be an asset.



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Thank you !