

Alvaro de Santos

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Education

Bachelor of Science, Computer Science and Mathematics

Expected Graduation: May 2026

Autonomous University of Madrid — Madrid, Spain

Courses: Data Structures & Algorithms, Java OOP, SQL Relational Database, Microprocessors, Load Balancing.

Real Analysis, Complex Analysis, Probability, Statistics, Differential Equations, Differential Geometry.

Activities: Participated in Hackathon team projects.

Experience

PearAI Code Editor — Remote

August 2024 – Today

Front-end Developer

Several contributions to [PearAI](#) - an open source AI-powered code editor.

- Contributed to **PearAI**, an AI-driven code editor extension built with **React**. Focused on seamlessly integrating the extension's features within the editor's existing functionalities to enhance the **user experience**.
- Worked on optimising **advanced routing** and managing a **hook-heavy** codebase.
- Collaborated effectively using **GitHub**, managing **pull requests**, resolving issues, and adhering to workflow protocols to ensure smooth project execution and team collaboration.
- Developed strong problem-solving skills and experience with **GitHub workflows** in a collaborative development environment.

Projects

Next.js Devflow – Stack Overflow Clone [Website](#) | [Github](#)

August 2024 – September 2024

- Developed DevOverflow, a modern full stack Stack Overflow-inspired application using Next.js 14.
- Implemented advanced features such as **AI-generated answers**, a **global database data-fetching system**, and an intricate reputation and badge system.
- Gained expertise in **server-side rendering (SSR)** and modern data-fetching strategies like **ISR (Incremental Static Regeneration)** and **SSG (Static Site Generation)**.
- Integrated key functionalities including **pagination, filtering, and a voting mechanism**, while ensuring best practices in UI/UX design.
- Leveraged modern web development tools and designed the application with a scalable architecture.

Imaginify – AI Stock Photo Manipulation SaaS [Website](#) | [Github](#)

July 2024 – August 2024

- Built a **Next.js** full stack web application that allows users to perform **AI-driven image transformations**, such as object removal and background replacement, using **Cloudinary's API**.
- Integrated authentication through **Clerk** and utilised **MongoDB Atlas** for photo and user data storage.
- Designed and implemented a credit-based system with **Stripe** for premium features.
- Applied **TypeScript**, **Tailwind CSS**, and **Zod** for validation, ensuring efficient and secure app functionality.
- Enabled users to upload, modify, and manage images, providing a scalable, AI-powered image database.

Rate Repository App – Mobile Repository Rating Platform [Github](#)

June 2024 – July 2024

- Developed a **React Native frontend app** for rating and reviewing GitHub repositories, with support for user authentication using **JWT tokens**.
- Implemented features including repository filtering, infinite scrolling, using **Apollo Client** and **GraphQL**.
- Utilised **Formik** form handling, **React Context API** for state management, and **Expo** for testing on Android devices.
- Demonstrated proficiency in mobile development and seamless API integration with a backend.

Programming Skills: Java, Javascript/Typescript, Python, SQL, C.

Other: Git, Reactjs, Nodejs, Nextjs, React Native, HTML, CSS/Tailwind, MongoDB, PostgreSQL, Jest, Playwright, GraphQL.

Interests: Sports (running, gym, also hiking), Tech related youtube content, Hackathons.