Leonardo Lodi

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EXPERIENCE

Bydas   **November 2024 - Present**
Software Developer   *Porto, Portugal*

- Spearheaded the end-to-end development of AlgaID, a mobile application for EABA, built using React Native, TypeScript, Python and Google Cloud Platform, delivering a CNN with 80% accuracy for real-time algae identification.
- Collaborated directly with Haier and its team to develop an interactive 3D environment using PHP, JavaScript and Three.js, enhancing the immersion of their product presentations.

Freelance   **September 2024 - Present**
Software Developer   *Remote*

- Developed Allegrow, a SaaS platform connecting children's event providers with parents, using React, JavaScript, Node.js, Express.js and PostgreSQL.
- Built a SaaS management platform for Wizard by Pearson franchisees, using Next.js, TypeScript, AWS and PostgreSQL.

PROJECTS

Allegrow   **March 2025 - Present**

- Implemented a RESTful API, featuring authentication, real-time booking with Stripe webhooks and email automation via SendGrid.
- Built a WebSocket infrastructure for live chat between parents and providers.

AlgaID   **January 2025 - Present**

- Managed Expo pipelines for automated builds and deployment to Apple App Store and Google Play.
- Developed a machine learning architecture using Python and TensorFlow, implementing a CNN with Conv2D layers and training the model on Google Cloud Platform's Vertex AI.
- Engineered web scraping and crawling solutions to collect and preprocess over 1 million algae images, creating a robust dataset for effective model training.

Wizard ON   **September 2024 - October 2024**

- Developed a web application, implementing a RESTful API for managing leads, employee tasks, real-time dashboards and financial reporting features.

EDUCATION

Boolean   **February 2024 - August 2024**
Software Engineering   *Remote*
Completed a 1,000-hour bootcamp focusing on hands-on software development skills.

SKILLS

JavaScript, TypeScript, React, React Native, Next.js, Node.js, Express.js, Python, PHP, PostgreSQL, Prisma ORM, Google Cloud Platform, AWS, Docker, Git, Jest, HTML, CSS