

Duarte Fernandes

📍 Porto – Portugal

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Summary

Full-Stack Developer with a strong backend focus and hands-on experience building production-ready web applications. Skilled in modern JavaScript ecosystems (Node.js, Vue.js, React), REST and GraphQL API design, and relational and NoSQL databases. Proficient across the full development lifecycle using Agile methodologies, DevOps tools, and cloud-based environments. Seeking a software engineering internship to apply full-stack development skills and contribute to impactful projects.

Skills

- **Core Languages:** JavaScript, Node.js, Python
- **Backend Development:** REST API Design, Microservices Architecture, API Integration, Express.js, JWT Authentication, Sequelize
- **Databases:** MySQL, MongoDB, SQL, NoSQL, Database Design, Data Modeling
- **Frontend:** HTML, CSS, Tailwind CSS, Vue.js, React, SPA Development
- **Testing & DevOps:** Git, Docker, Docker Compose, Postman, Jest, Supertest, Selenium

Education

ESMAD – Escola Superior de Media Artes e Design

Bachelor's in Web Technologies

Porto, Portugal

Oct. 2023 – Jul. 2026

- Project-based curriculum emphasizing full-stack system design and software engineering.
- Relevant coursework: Databases, UI/UX, OOP, Cloud Computing, Testing, AI & Machine Learning, Agile.

Projects

PokeStop – Pokémon Platform

GitHub: [DuartePortfolio/PokeStop](#)

- Built a full-stack microservices platform supporting user authentication, Pokémon encounters, captures, and team management.
- Designed six independent services integrated via an NGINX API Gateway using REST and GraphQL APIs.
- Implemented MySQL and MongoDB persistence, secure JWT authentication, and Dockerized deployment.
- **Tech:** Node.js, Express, Python (Flask), GraphQL, MySQL, MongoDB, Docker, NGINX.

Voltzy – Smart Energy Management App

GitHub: [DuartePortfolio/NewVoltzy](#)

- Developed a cross-platform mobile app for real-time monitoring of energy usage, solar output, and smart lighting.
- Built a React Native + TypeScript frontend with real-time dashboards and analytics.
- Implemented a secure Node.js backend with MySQL, JWT authentication, and RESTful APIs.
- **Tech:** React Native, TypeScript, Expo, Node.js, Express, MySQL, JWT.