

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, WordPress, 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 – Feb. 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.

Crystal3D – Custom 3D Glass E-commerce Platform

Academic Project

- Designed and developed a fully functional e-commerce platform in WordPress for transforming user-uploaded 3D models into custom glass products.
- Implemented WooCommerce-based ordering flow including product customization (size, color, food-grade option), cart, checkout, and secure payment integration.
- Integrated interactive 3D model visualization using a dedicated 3D viewer plugin and structured dynamic upload forms.
- Configured role-based back-office management for orders, customers, products, and performance monitoring.
- Applied HTTPS encryption, secure file handling, and WordPress security best practices.
- **Tech:** WordPress, WooCommerce, Astra Theme, 3D Viewer Plugin, SureForms, PayPal Payments.