

ALBERTO GUINDA SEVILLA

Full-Stack Developer | React • Next.js • TypeScript • Node.js • Python • Django | IoT • AI • Blockchain

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<https://albertoguindaportfolio.vercel.app>

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ABOUT ME

Highly focused Full-Stack Developer with 2+ years of experience specializing in IoT, AI, and Digital Twins.

Proven expertise in developing with React, Next.js, Node.js, Python, and Django, including IoT systems with Computer Vision, local AI applications, and robust backend architectures using Django REST Framework.

Experience integrating the OpenAI API in production and developing solutions with vector embeddings. Master's degree in Digital Transformation and IoT (8.8/10), currently pursuing a Master's in AI Development. Recommendation letters available from ITA and Pikolin.

PROFESSIONAL EXPERIENCE

System Analyst Technician *UB Manufacturing S.L.* — 09/2025 – 11/2025 | Zaragoza

- Analyzed and evaluated technological infrastructure, proposing modernization and digitalization strategies.
- Developed CV Finder: a semantic candidate search system using local AI (Next.js 15, React 19, Transformers.js) powered by vector embeddings.
- Resolved over 200 monthly technical incidents, ensuring the availability of critical systems.
- Implemented IoT and automation solutions for industrial process optimization.
- Created technical documentation and provided internal user support on enterprise information systems.

Full-Stack / IoT Developer *Instituto Tecnológico de Aragón (ITA)* — 10/2024 – 06/2025 | Zaragoza

- Developed an agricultural IoT system incorporating Computer Vision (EfficientNet-B0) and a web dashboard (React, Node.js, InfluxDB, MQTT, CoAP).
- Modeled and deployed a Digital Twin using Blender and Babylon.js; integrated sensor data in an Oculus VR environment.
- Co-developed an interactive BIM viewer (Three.js, TypeScript) with IFC loading/fragmentation and sensory simulation; selected for corporate continuity.
- Received a letter of recommendation for high performance and technical contribution.

Web Developer *Agencia Digital SP* — 04/2024 – 06/2024 | Zaragoza

- Developed custom child themes and plugins for WordPress, including GPT-3.5 chatbot integration using the OpenAI API.
- Participated in the entire development cycle, from functional design to delivery and validation.

Junior Web Developer *Pikolin* — 04/2023 – 09/2023 | Zaragoza

- Developed an internal tool for sales forecasting using a SARIMAX statistical model.
- Programmed modularly in PHP and JavaScript with PostgreSQL, deployed on WordPress.
- Achieved a 40% improvement in query time and received a letter of recommendation for high performance.

ACADEMIC BACKGROUND

Master's in AI Development (In Progress) BIG school | 2025 – 2026 | 200+ hours

Master's in Digital Transformation and IoT Instituto Tecnológico de Aragón (ITA) | 2024 – 2025 | 600 hours | Grade: 8.8/10

Introductory Course to AI Development BIG school | 10/2025 | 6 hours

Higher Technician in Web Application Development (DAW) Academia Marco | 2022 – 2024 | 2000 hours

Technician in Microcomputer Systems and Networks (SMR) Izquierdo FP | 2020 – 2022 | 2000 hours

TECHNICAL SKILLS

- **Languages:** JavaScript (ES6+), TypeScript, Python, PHP, C/C++ (Arduino)
- **Frontend:** React (Hooks, Context), Next.js, Astro, Angular, Vite, Tailwind CSS
- **Backend:** Node.js, Express, Django, Flask, REST/RESTful APIs, WebSockets, JWT
- **Databases:** PostgreSQL, MongoDB, InfluxDB, ChromaDB
- **AI & Machine Learning:** Transformers (Hugging Face), TensorFlow Lite, OpenCV, OpenAI API, Vector Embeddings
- **3D / VR / IoT:** Blender, Three.js, Babylon.js, Oculus VR, MQTT, CoAP, ESP32/ESP8266
- **DevOps:** Git, Docker, GitHub Actions, Vercel, AWS (EC2, S3) | Methodologies: Scrum, Agile, Jira

ADDITIONAL DOCUMENTATION

- **Verifiable Letters of Recommendation** (ITA and Pikolin) accessible in portfolio.
- **Portfolio with featured projects:** PlantsCare (IoT + AI), TaskMind AI (Django + AI), BIM Viewer (Three.js), 4th place in The Wave 2025 hackathon.