

Angelo Ortiz Vega.

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Location: Cartago, Costa Rica

PROFESSIONAL PROFILE

Software Engineer with over four years of experience developing scalable and efficient digital products for startups and organizations, combining technical expertise with strong problem-solving skills, business insight, and user-centered design. Skilled in Python development with frameworks such as Flask and FastAPI, cloud integrations with AWS, and modern full stack technologies including React, Angular, and Nodejs. Currently completing a degree in Computer Engineering at the Technological Institute of Costa Rica, reinforcing a solid theoretical and analytical foundation. In parallel, I have worked as a university lecturer for 3+ years, teaching Artificial Intelligence, Data Analysis, Full Stack Development, and UX Design, with a focus on practical and real-world applications. **Keywords:** *Computer Engineer, AI & Data, Full Stack Development, Python (Flask/FastAPI), AWS, University Lecturer.*

WORK EXPERIENCE

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| Software Engineer | Self Employed / Various Clients | Jun 2020 - May 2024 |
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Delivered end-to-end software solutions for startups and diverse clients, combining robust backend development, cloud integration, process automation, and modern frontend engineering. Focused on building **scalable, maintainable, and efficient systems** through clean architecture and best engineering practices.

- **Full Stack Development (4+ years):** Designed and implemented responsive web and mobile applications using **React** and **React Native**, with data-driven backends powered by **PostgreSQL** and **MongoDB**.
- **Python & API Engineering (4+ years):** Built reliable backend systems and **RESTful APIs** with **Flask** and **FastAPI**, including comprehensive **unit and integration testing**.
- **Cloud & DevOps (1–2 years):** Integrated systems with **AWS (S3, EC2, Lambda)**, and automated delivery pipelines using **Docker** and **GitHub Actions** to streamline deployment and scalability.

Frontend Developer – EasyHop (Contractor)

- Served as **Lead Frontend Developer** for the passenger web app (React), delivering a high-performance, responsive, and accessible interface.
- Built core features for the **driver mobile app** (React Native), improving usability and reliability in real-world driving scenarios.
- Led a **UX research initiative** that informed the decision to invest in a **web-based driver platform**, increasing operational efficiency and revenue potential.
- Developed a **Python web scraping system** to automate external data collection, supporting market and product strategy decisions.

Fullstack Developer – Qubo Systems (Contractor)

- Designed and implemented **end-to-end software components**, including REST APIs and admin dashboards, improving internal efficiency.
- Deployed **Machine Learning models** for salary classification, integrating automated data pipelines and analytics into production systems.
- Managed **AWS services** (EC2, S3, Lambda) for deployment and task automation, increasing uptime and reducing manual operations.
- Collaborated with cross-functional teams to align backend, frontend, and data science efforts within Agile sprints.

Freelance Full Stack Developer

- Developed **custom web solutions and dashboards** using Angular, React, and Node.js, integrating databases and third-party APIs for diverse clients.
- Built **Python automation tools** for reporting, data migration, and process optimization, cutting manual workloads by up to 60%.
- Delivered maintainable, scalable codebases and collaborated closely with clients to translate business needs into digital products.

University Lecturer

Universidad Creativa de Costa Rica

Apr 2022 - Present

- **Designed and delivered curriculum** for the *Advanced Technical Certificate in Artificial Intelligence, Full Stack Web Development, Data Science Certification, and UX Design Certification*, bridging foundational theory with hands-on, industry-relevant projects.
- **Incorporated real-world case studies**, collaborative learning, and innovative teaching methods to enhance student engagement and applied learning outcomes.
- **Mentored students** through capstone projects and functional prototypes aligned with professional standards in AI, software engineering, and digital product design.
- **Taught key courses** such as *Python for AI, Applied AI, and Machine Learning & Deep Learning*, emphasizing backend development, API design, and AWS cloud deployment.
- **Authored and structured the complete UX Design Certification**, developing core modules in *Research for Digital Experiences, Solution Ideation, Design Principles, and Interaction & Usability*.

PERSONAL PROJECTS

TopspinAI – Real-time Table Tennis Analytics Platform (Python, OpenCV, AWS) | Jan 2024 – Nov 2024

Developed an end-to-end analytics platform for table tennis, combining computer vision, machine learning, and cloud integration to analyze matches in real time. Designed with scalability and performance in mind, the system supports player training, coaching, and data-driven match insights. Demo: [TopspinAI ppt - Figma](#)

OTHER NOTEWORTHY PROJECTS

- [angelortizv.com](#) Personal blog exploring life, technology, UX, and AI.
- [angelortizv.me](#) Online portfolio showcasing selected freelance and academic work.
- [ux-arc](#) Curated knowledge base for UX topics.
- [ce-itcr](#) Collection of academic projects completed during my CE studies.
- [Space Invaders Clone](#) A Space Invaders clone written in Python with PyGame.

ACADEMIC TRAINING

Licenciatura de Ingeniería en Computadores
Técnico Medio en Electrónica Industrial
Bachillerato en Educación Media

Instituto Tecnológico de Costa Rica
Colegio Técnico Profesional de Dulce Nombre
Colegio Técnico Profesional de Dulce Nombre

CERTIFICATIONS

IBM AI Developer

Python Essentials 1 & 2

Professional Development Program (PDP)

Scrum Foundation Professional Certification - SFPC

Full Stack Web and Multiplatform Development

Google IT Automation with Python

Google IT Support Professional Certificate

Coursera & IBM

Coursera & Cisco Networking Academy

Centro Universitario Miravalles

CertiProf International

Coursera & The Hong Kong University

Coursera & Google, LLC

Coursera & Google, LLC