TOMAS FERRARI

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SUMMARY

Software Engineer with 6+ years of experience building full-stack web applications and automating complex backend processes across finance, energy, and tech industries. Proficient in Python (FastAPI, Flask) and React/JavaScript, with a strong track record of improving system performance — including a 25% throughput boost at JP Morgan and 5,000+ manual hours saved at Sparklight through AI-powered automations. AWS Cloud Practitioner certified and experienced Scrum Master.

WORK EXPERIENCE

Athyna | Sparklight   Buenos Aires, Argentina
Software Engineer Full Stack   November 2024 – Present
- Built full-stack web app (FastAPI + React) to automate IP reservations, saving 5,000+ manual hours per year.
- Developed Python-based microservices in a star topology architecture to support a React frontend integrated with Azure Entra ID authentication.
- Automate Network configurations devices through a web app with FastAPI, Jinja2 and React.

JP Morgan Chase   Buenos Aires, Argentina
Associate Software Engineer   December 2021 – November 2024
- Developed Python OOP automation scripts for financial reporting, significantly reducing operational incidents.
- Built Tornado Server API endpoints for post-processing financial instruments across multiple data formats.
- Led Redis-to-AMPS cache migration achieving a 25% throughput improvement; authored all scripts and unit tests.
- Served as Scrum Master, improving agile practices and increasing team productivity and throughput by 40%.
- Achieved AWS Cloud Practitioner certification.

Exxon Mobil   Buenos Aires, Argentina
Developer   December 2019 – December 2021
- Developed an AI-powered NLP chatbot to assist incident managers in retrieving critical info, reducing MTTR.
- Built Python/Flask REST APIs and React frontends for APM dashboards and root-cause analysis workflows.
- Infrastructure and network monitoring via Splunk, AppDynamics, Tableau, and PowerBI.

PERSONAL PROJECTS

Entrevinos entrevinos.app   2024 – Present
- Full-stack platform for wine enthusiasts with social discovery and collection management features.
- AI-powered wine label classification using TensorFlow.js & Google Gemini; real-time backend via Supabase.
- Authentication and storage using Supabase.

EDUCATION

Universidad Católica Argentina   Buenos Aires, Argentina
Electronic Engineering   June 2019

Codo a Codo   Buenos Aires, Argentina
Web Development – JavaScript / Node.js   June 2024

ADDITIONAL

Technical Skills: Python, FastAPI, Flask, React, JavaScript, SQL, Node.js, Docker, MongoDB, Redis, Git, Tornado, TensorFlow.js, Supabase, Ansible, Openshift

Cloud & DevOps: AWS (Cloud Practitioner certified), Azure, Azure DevOps, Splunk, AppDynamics, PowerBI, Tableau

Languages: Spanish – Native | English – C2 Proficient

Certifications: AWS Cloud Practitioner | Professional Scrum Master | Full Stack JavaScript / Node.js (Codo a Codo)