Tomás Vainstub

Advanced Computer Engineer student | Software Engineer
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PROFILE

Software Engineer and final-year Computer Engineering student with professional experience in Python backend development, data engineering, and hardware-software integration. Experienced in building data processing pipelines, RESTful APIs with FastAPI, and cloud-based solutions using Google BigQuery. Skilled in developing cross-platform applications and integrating microcontroller-based devices with software systems. Passionate about technology and software engineering, with a strong curiosity, a continuous learning mindset, and a drive to take on new technical challenges.

PROFESSIONAL EXPERIENCE

Software Engineer

Ivolution – Full time | October 2025 – present

- Develop and maintain Python-based data processing pipelines, leveraging Google BigQuery for data management, transformation, and analysis across company projects.
- Design and develop backend services and RESTful APIs using Python and FastAPI, supporting data integration and communication between systems.
- Develop and maintain cross-platform applications using React Native, React, Electron, and TypeScript, integrating cloud services and databases.
- Refactor legacy microcontroller data-processing systems and develop USB-based data acquisition pipelines, ensuring reliable hardware-software communication and telemetry processing.

Support Administrator

Ivolution – Full time | February 2024 – October 2025

- Provide technical support to customers regarding software and hardware, resolving issues and answering technical questions.
- Provide feedback to the Development team; test final products prior to their release; manage inventory of products and materials.
- Proposed and developed a quality management system that covers the support area, the maintenance of incoming data, and its display on dashboards.

EDUCATION

- **Computer Engineer**, National University of Rafaela. In progress. Started in 2022.
- **Bachelor of Science in Computer Science**, Instituto Cooperativo de Enseñanza Superior. Finished in 2021.

Complementary:

- AWS Academy – Data Engineering, Cloud Developing, Cloud Foundations – 2026
- SOLID principles and clean code – Udemy – 2026
- Backend Programming II: Backend Design and Architecture – CoderHouse – 2026
- Backend Programming I: Advanced Backend Development – CoderHouse – 2025
- Principles of Golang – Microsoft – 2025
- JavaScript – CoderHouse – 2024 | Web Development – CoderHouse – 2023 | Introduction to Python – Udemy – 2022

TECHNICAL SKILLS

Programming Languages: Python, TypeScript, JavaScript
Backend & APIs: FastAPI, Node.js, Express, REST APIs
Data Engineering: Data Pipelines, Google BigQuery, Data Processing
Frontend & Mobile: React, React Native, Electron, Zustand
Databases: PostgreSQL, CouchDB, PouchDB, MongoDB
Cloud & DevOps: GCP, AWS, Docker, Git, GitHub Actions, Azure
Hardware integration: Microcontrollers, USB and Bluetooth communication and data acquisition
Workflows (AI automation): n8n
Agile: Scrum

LANGUAGES

Spanish – C2 | **English** – B2 | **Dutch** – A1