

# Fabian Jose Fernandez Fernandez

Alajuela, Costa Rica

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## PROFESSIONAL SUMMARY

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Software Engineering student (Expected Graduation: June 2027) with experience in full-stack development, backend infrastructure, and data-driven systems. Proven ability to design scalable platforms and improve operational processes through technology. Seeking a Technology Internship to contribute to enterprise systems in Application Integration, Data & Analytics, and Infrastructure while developing leadership and problem-solving capabilities in a global environment.

## EDUCATION

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- **Tecnologico de Costa Rica (TEC)** Alajuela, Costa Rica  
*B.S. in Software Engineering (Expected Graduation: Jun 2027)* 2022 – Present

## TECHNICAL SKILLS

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- **Programming:** Java, Python, JavaScript, TypeScript
- **Application & Integration:** REST APIs, FastAPI, Node.js, Backend Services, System Integration, API Development
- **Data & Analytics:** PostgreSQL, Firebase, Supabase, Data Modeling, Database Design, Data Analysis, Operational Analytics
- **Infrastructure:** Docker, CI/CD, Redis, Distributed Systems
- **Security & Risk:** Authentication Systems, Role-Based Access Control, Secure API Design
- **Tools & Methodologies:** Agile Development, Scrum, Git, GitHub, Jira

## EXPERIENCE

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- **Constructora HRH** Alajuela, Costa Rica  
*Digital and Geospatial Projects Engineer* Oct 2025 – Feb 2026
  - Integrated CAD/GIS systems with web-based platforms to centralize geospatial and technical data, improving operational efficiency and data visibility across infrastructure-related business processes.
  - Designed digital documentation workflows that strengthened data integrity and enabled more efficient cross-functional collaboration between engineering and operational teams.
  - Optimized infrastructure-related processes through analytical problem solving, improving traceability and system reliability.
- **Freelance Software Developer** Remote  
*Full-Stack Software Developer* 2025 – Present
  - Led end-to-end development of full-stack systems, translating business requirements into scalable technical solutions from architecture design to deployment and post-launch optimization.
  - Developed REST-based backend services integrating relational databases, authentication systems, and asynchronous task processing to automate operational workflows.
  - Delivered secure data-driven dashboards enabling real-time inventory management, operational analytics, and business decision support.
  - Coordinated with stakeholders to design and implement digital solutions that improved efficiency and streamlined commercial operations.
- **AIIESEC en Costa Rica** Costa Rica  
*OGX Member* Nov 2023 – Apr 2024
  - Collaborated in multicultural teams managing national CRM systems while ensuring data accuracy, compliance, and operational continuity.
  - Analyzed performance metrics to identify business process improvement opportunities and support strategic lead generation initiatives.
- **Tecnologico de Costa Rica** Alajuela, Costa Rica  
*Teaching Assistant & Mentor* 2023 – Present
  - Mentored first-year Computer Science students in programming, system design fundamentals, and structured problem-solving methodologies.
  - Strengthened leadership and communication skills by guiding students through analytical and technical challenges in collaborative learning environments.

## KEY PROJECTS

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- **Distributed Retro Game System**

GitHub

*FastAPI, Celery, Redis, Docker, PostgreSQL*

- Designed and deployed a distributed backend architecture using asynchronous task queues (Celery) and Redis, containerized with Docker.
- Improved system scalability and backend performance through workload distribution, efficient data processing, and database optimization.

- **Freelance Full-Stack Digital Transformation Projects**

*TrezaCR & Suplidora Santamaria*

- **Live Platforms:** TrezaCR E-Commerce (trezacr.com) — Suplidora Santamaria (suplidorasantamaria.com).
- Developed full-stack digital platforms integrating frontend applications, backend services, and relational databases to support business operations.
- Implemented secure administrative dashboards for inventory control, content management, and operational analytics.
- Improved system reliability through authentication mechanisms, database optimization, and workflow automation.

- **Pure Harvest Mobile Platform**

GitHub

*Java, Firebase, MVVM-C, Scrum*

- Collaborated within an Agile development team to deliver a scalable mobile marketplace aligned with product and business requirements.
- Implemented secure authentication and real-time data synchronization using Firebase services.

- **Pet Health Tracker**

Backend — Web — Mobile

*FastAPI, React, PostgreSQL*

- Contributed to a modular system architecture integrating backend APIs, secure authentication, and database management.

## LANGUAGES

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- **English:** B2+ (Professional Working Proficiency)
- **Spanish:** Native