Fabio Fernandez Veizaga

fabiofernandezvei0605@gmail.com ● +591 62662995 ● My portfolio

Profile

I'm a Systems Engineering student from Bolivia with real-world experience building software solutions for small businesses. I enjoy working on practical applications such as inventory systems, point-of-sale platforms, and delivery tracking tools. Passionate about JavaScript and full-stack development, I constantly seek to improve my skills in modern web technologies. I've also participated in hackathons and programming contests, which have strengthened my logical thinking and ability to solve problems under pressure.

Education

Bachelor's Degree in Systems Engineering

Franz Tamayo University — Cochabamba, Bolivia

Expected Graduation: July 2027
GPA: 86/100

Professional Experience

Granja Don Luis   Cochabamba, Bolivia

Software Developer & Qa tester   Feb 2025 – Jun 2025

- Developed a full-stack inventory and delivery system using Python (Flask) for the backend and JavaScript for dynamic client-side interactions.
- Integrated MySQL for data persistence and used RESTful API design to manage inventory and delivery data.
- Built reusable backend logic to ensure scalable operations and reduce manual tracking.
- Streamlined business processes by improving delivery coordination and record accuracy.

Tienda la Yungueña   Cochabamba, Bolivia

Software Developer & Qa tester   Jun 2025 – July 2025

- Developed a complete POS (Point of Sale) system with inventory management and sales tracking using Python (Flask) for the backend.
- Used JavaScript and CSS for dynamic and responsive client-side interactions.
- Implemented automatic change calculation with localStorage for temporary data handling.
- Included features such as product and category management, sales history, and real-time inventory updates.
- Integrated MySQL for reliable data persistence and designed a RESTful API to handle products, orders, and deliveries.
- Streamlined business operations by automating manual processes and improving stock control and cash flow accuracy.

Pollería Tuty – Cochabamba, Bolivia   Cochabamba, Bolivia

Software Developer & Qa tester   Mar 2024 – Jul 2024

- Developed a lightweight POS and order management system with automatic receipt generation and efficient transactional handling.
- Built a dynamic frontend using HTML, CSS, and JavaScript, including complex forms, validation, and pagination for smooth user workflows.
- Implemented backend logic using PHP and MySQL, integrating multiple APIs for data management and reporting.
- Optimized sales flow to minimize transactional errors and improve overall user experience.
- Designed and consumed RESTful APIs to ensure seamless communication between frontend and backend components.
- Ensured responsive design and interactive UI elements for real-time order processing and inventory updates.
- Applied clean code practices, modular architecture, and reusable components to enhance maintainability and scalability.

Farmacia Eliana   Cochabamba, Bolivia

Software Developer & Qa tester   Aug 2024 – Dec 2024

- Maintained and enhanced an internal pharmacy system with inventory, sales tracking, and supplier geolocation using Laravel and MySQL.
- Developed Blade templates with TailwindCSS and JavaScript to build a responsive control panel for managing data and workflows.
- Refactored backend logic and optimized Eloquent queries to improve system performance, scalability, and maintainability.
- Implemented RESTful APIs, unit tests, and form validation for secure and reliable functionality.
- Collaborated with end users and stakeholders to adapt the system to real-world operational needs.
- Used Git for version control and Slack for team communication, ensuring smooth collaborative development.
- Applied clean code principles and best practices across frontend, backend, and database layers.

This is something I created independently.   Cochabamba, Bolivia

Software Developer   Feb 2025 – April 2025

Personal project: A fully dynamic platform (similar to Linktree) designed to help locate missing people. Built with React, TypeScript, Express, and MongoDB. Includes drag-and-drop functionality, follows clean code principles, and applies best development practices.

- Developed a full-stack application using React, TypeScript, Express.js, and MongoDB
- Implemented a drag-and-drop interface for dynamic user interaction
- Designed a modular and scalable architecture, applying clean code and SOLID principles
- Used Git and GitHub for version control and collaboration-ready structure
- Applied responsive design for optimal experience across devices
- Wrote unit tests and integration tests using Jest and React Testing Library
- Utilized Postman for API testing and documentation
- Configured environment variables and followed security best practices (e.g., no sensitive data in client)
- Followed RESTful API standards and implemented error handling and validation
- Applied state management using React Hooks and Context API
- Practiced continuous learning through personal research and iterative improvement
- Built with employability in mind, simulating real-world development cycles

Cuenta Cuentos – University Project   Cochabamba, Bolivia

Software Developer   Jan 2025 – Feb 2025

- Built a web application using React and TypeScript with a NoSQL database
- Designed to share and explore user-generated short stories or tales
- Implemented search and filtering functionality for quick content discovery
- Focused on UI/UX best practices to ensure a smooth and engaging user experience
- Developed dynamic content rendering with real-time interactions
- Applied component-based architecture for scalability and maintainability
- Practiced responsive design to ensure accessibility across devices
- Used Git for version control and collaborative development (if worked with classmates)
- Emphasized clean code and code reusability throughout the project
- Integrated form handling and validation for story submissions

Laravel Developer (Fullstack) – Worth It   Cochabamba, Bolivia

Software Developer

- Developed and maintained web applications using Laravel (PHP) for backend and React for frontend.
- Designed and consumed RESTful APIs to ensure seamless client–server communication.
- Implemented authentication, role-based authorization, and secure data handling.
- Built reusable React components to enhance scalability and maintainability.
- Worked with PostgreSQL for relational data management, focusing on query optimization and performance tuning.
- Applied unit testing to validate core features and improve code reliability.
- Followed MVC architecture and design patterns to maintain clean and structured code.
- Collaborated effectively with the team using Slack and Git/GitHub for communication, version control, and code reviews.
- Contributed to responsive UI/UX design, ensuring accessibility across multiple devices.

Telemedicine Kit Developer – MUN GAM Cochabamba | Representing Unifranz

Software Developer

- Designed and developed a telemedicine solution integrating hardware, software, and AI to support healthcare and well-being initiatives.
- Built the IoT architecture using an ESP32 with biomedical sensors:
- MAX30102, measured oxygen saturation (SpO_2) and heart rate.
- MLX90614, measured non-contact body temperature.
- Implemented a data preprocessing pipeline (averaging, filtering, anomaly detection) to improve accuracy and reliability of physiological measurements.
- Developed a mobile application with Flutter connected to Firebase for real-time data storage, user authentication, and patient profile management.
- Patient profile included baseline diseases, current medications, family history, height, and weight, enabling contextualized recommendations.
- Integrated Gemini API (Generative AI) to provide clinical decision support: personalized insights, possible causes, and recommendations based on physiological data and medical history.
- Applied Agile methodology, organizing tasks with Trello and coordinating as part of a multidisciplinary team (engineering + medical advisors).
- Delivered a functional prototype for the healthcare sector, showcased at the United Nations Model (MUN) of GAM Cochabamba, focused on Health and Well-being (SDG 3).

Smart Glasses for Sign Language Translation (in development)

Software & Machine Learning   Cochabamba, Bolivia

- Developing software-focused smart glasses prototype for real-time Bolivian Sign Language (LSB) translation, aimed at improving accessibility for the deaf community.
- Implementing deep learning models (including LSTM neural networks) and computer vision algorithms to accurately recognize LSB gestures from video input.
- Integrating ML models into embedded hardware (Raspberry Pi Zero 2 W) for real-time processing and voice output.
- Developing a mobile companion app (Flutter + Firebase) for managing user profiles, learning modules, and synchronizing gesture data.
- Project emphasizes ML-driven software functionality, enabling independent real-time translation while supporting interactive learning through the app.
- Managed using Agile methodology (Scrum) with Trello for task organization.

Leadership & Collaboration

Programming & DSA Lab Assistant
Franz Tamayo University – Feb 2024 to Dec 2024

- Assisted students in understanding fundamental programming concepts, data structures, and algorithms (DSA).
- Provided support for Programming 1 labs, exercises, and evaluations, ensuring students could apply concepts practically.
- Offered one-on-one guidance to students who requested extra help, adapting explanations to individual learning styles.
- Encouraged collaborative coding sessions and peer-learning environments to foster teamwork and problem-solving skills.
- Guided students in debugging, algorithm design, and code optimization, reinforcing best programming practices.
- Actively collaborated with faculty to improve course materials and provide constructive feedback for curriculum enhancement.
- Recognized for being a reliable team player, proactive in helping both students and colleagues succeed in technical tasks.

Head of Culture & Technology – Franz Tamayo University
Cochabamba, Bolivia | 2025 – Present

- Directed initiatives in culture, technology, and innovation, enhancing student engagement.
- Organized workshops, hackathons, and tech events to develop practical skills.
- Led and motivated student teams in technology projects and competitions.
- Facilitated collaboration across student groups and faculty to achieve project goals.
- Strengthened problem-solving, project management, and coordination skills applicable to software development and QA.

Skills

Languages & Frameworks:

- Python (Flask), JavaScript, TypeScript, PHP, Laravel, C++
- HTML5, CSS3, Node.js (basic), React (basic), AJAX, TailwindCss

Databases & Tools:

- MySQL, Git, Firebase, Trello, REST APIs, MongoDB.

Development Practices:

- Full-stack web app development
- API integration & backend logic
- Agile methodologies (Scrum), Git version control

Soft Skills:

- Self-driven and detail-oriented
- Strong problem-solving mindset
- Good communication and teamwork

QA / Testing:

- Manual, exploratory, and unit testing
- Test case design and execution
- API testing (Postman)
- Web and responsive testing

Languages

- Spanish – Native
- English – Basic to Intermediate (currently studying at Open English and CBA)

Certificaciones

Relevant Courses:

- Web Development (CSS3, JavaScript, AJAX, PHP & MySQL)
- Python TOTAL: Advanced Programming in 16 Days

Contests & Hackathons:

- NASA Space Apps Challenge – Cochabamba, 2024: Built a tech solution in a 24-hour sprint with a multidisciplinary team.
- ICPC Local Round – 2024: Practiced algorithm design and time-efficient coding.
- Cocha Somos Innovación – 2024 & 2025: Strengthened real-time debugging and logical thinking in contest settings.

Nasa Space Apps Challenge Cochabamba, otorga el presente

CERTIFICADO

A:

FABIO DANIEL FERNANDEZ VEIZAGA

Por su participacion en la Hackathon Internacional
Space Apps Challenge 2024: The Sun Touches Everything
Un evento que promueve nuevas ideas y tecnologias para contibuir
al avance de nuestro planeta.

Dev. Benjamin La Torre Aguilar
Lead Local - Sede Cochabamba

Dev. Andriw Nikolay Sorio Teran
Lead Local - Sede Cochabamba

Dev. Jorge Andrés Velásquez Saravia
Lead Local - Sede Cochabamba

Dev. Sergio Diego Uscamaita Dominguez
Lead Local - Sede Cochabamba

Certificate of Achievement

Competencia Boliviana de Programación
30 - 31 August 2024

Honorable Mention

Universidad Privada Franz Tamayo

Fabio Daniel Fernandez Veizaga
Matias Paniagua Rivero
Nicole Andrea Quenama Vasquez
Rosmery Luizaga Salinas, Coach

William B. Poucher, Ph. D.
ICPC Executive Director

Certificado

De asistencia para:

Fabio Daniel Fernandez Veizaga

UNIFRANZ

Por haber participado en el **3er. Concurso de Programación** "Cocha somos Innovación 2024" en la **categoría ROOKIE.** Realizado el 24 de Julio en el Campo Ferial Alalay "Pabellón Europeo", en la ciudad de Cochabamba.

Cap. Manfred Reyes Villa Bacigalupi
Honorable Alcalde
Gobierno Autónomo Municipal de Cochabamba

C. Andreé Canelas Somaré
Secretario Mcpal. de Ciudad Digital
y Gobierno Electrónico GAMC

üdemy

Número de certificado: UC-ea555ddc-4546-4144-9d36-febcc12aabea
Url del certificado ude.my/UC-ea555ddc-4546-4144-9d36-febcc12aabea
Número de referencia: 0004

CERTIFICADO DE FINALIZACIÓN

Python TOTAL - Programador Avanzado en 16 días

Instructores **Federico Garay, Escuela Directa**

Fabio Daniel Fernandez Veizaga

Fecha **11 de diciembre de 2024**
Duración **30.5 horas en total**

CERTIFICADO DE FINALIZACIÓN

Desarrollo Web Completo con HTML5, CSS3, JS AJAX PHP y MySQL

Instructores **Juan Pablo De la torre Valdez**

Fabio Daniel Fernandez Veizaga

Fecha **24 de julio de 2025**
Duración **82.5 horas en total**

ALCALDÍA DE COCHABAMBA

4to. concurso de **PROGRAMACIÓN**
Cocha somos innovación2025

Certificado

De asistencia para:

FABIO DANIEL FERNANDEZ VEIZAGA

Por haber participado en el **4to. Concurso de Programación** "Cocha somos Innovación 2025" en la **categoría ADVANCED.** Realizado el 13 de Junio en el Campo Ferial Alalay "Pabellón Europeo", en la ciudad de Cochabamba.

C. Andreé Canelas Somaré
Secretario Mcpal. de Ciudad Digital
y Gobierno Electrónico GAMC

Study Cochabamba