

Felix Hernandez Vieyra

Software Engineer — AWS Cloud Certified

felix-hzv.dev

github.com/Felix-Hz

Visa: NZ Open Work Until 2028

Email: felix.hzv@gmail.com

Mobile: +64 21 925 790

Auckland, New Zealand

I thrive in environments where I can take on diverse responsibilities and deliver on high-pressure deadlines with strong customer focus. Continuously learning new technologies and dedicated to building extensible, performant, and resilient software. Outside of work, I'm a social person and music enthusiast who enjoys flying drones and learning Dutch.

TECHNICAL SKILLS

- **Programming Languages:** Python, TypeScript, Golang, C#
- **Databases:** PostgreSQL, MySQL, SQLite, DynamoDB
- **Frameworks & Tools:** Flask, FastAPI, Pydantic, Node.js, Express.js, React, Vue, Remix, Next.js, .NET
- **Cloud & DevOps:** AWS, Linux, Docker, CI/CD, Infrastructure-as-Code (Terraform, CDK, CloudFormation), Git
- **Data Engineering:** Databricks, ETL pipelines, Data Wrangling, Analysis & Visualization

EXPERIENCE

- **Infinity Studio** Auckland, New Zealand
Intermediate Software Engineer *April 2024 – Dec 2025 (1.5+ years)*
 - **Company Context:** Geotechnical engineering platform enabling field data collection, infrastructure design workflows, liquefaction risk analysis, and parameter correlations for engineering teams.
 - **Product Development:** Built and maintained 50+ end-to-end features and Python-based platform services to support geotechnical engineers, improving operational efficiency and data accuracy.
 - **Active Contributor & Code Reviewer:** Averaged 7 merged pull requests and 4 code reviews weekly, contributing 1M+ lines of code while maintaining code quality standards and supporting team velocity through consistent peer review.
 - **RESTful API Development:** Designed and implemented multiple RESTful APIs to perform complex analyses, export data, and generate custom PDF reports, enabling seamless integration with client workflows.
 - **Domain Modeling:** Modeled geotechnical engineering domain problems into well-structured, maintainable software solutions, collaborating closely with subject matter experts to ensure technical accuracy.
 - **Front-End Development:** Built high-performance, pixel-perfect, and secure front-end layouts using modern JavaScript frameworks, enhancing user experience and interface responsiveness.
 - **Testing & Quality:** Implemented comprehensive unit and integration tests to enhance code quality, reliability, and maintainability across the platform.
 - **Infrastructure-as-Code:** Developed infrastructure-as-code solutions for robust, automated, and scalable cloud environment deployments, reducing deployment time and infrastructure drift.

→ *Python, TypeScript, Flask, Pydantic, PostgreSQL, SQLAlchemy, React, Remix, Zod, React Hook Form, Databricks, Terraform, GitHub Actions, Pytest, Vitest, Sentry, Clerk, AWS (Lambda, Step Functions, ECS, RDS, DynamoDB, S3, EventBridge, SQS, CloudFront)*
- **Decodata** Amsterdam, The Netherlands
Full-Stack Software Engineer *July 2023 – February 2024 (8 months)*
 - **Company Context:** Furniture industry data management platform enabling product catalog automation, design asset processing, and supplier integrations.
 - **Data Processing:** Built back-end systems to manage and transform large volumes of design and product data, including pattern matching with regular expressions and image processing pipelines.
 - **User Interface Design:** Built intuitive user interfaces that balanced design, performance, security, and responsive behavior across devices, improving user engagement and satisfaction.
 - **Cloud Infrastructure:** Built and maintained cloud infrastructure-as-code with best practices, enabling efficient deployment, monitoring, and resilience of production systems.

→ *Python, TypeScript, FastAPI, Vue, Nuxt.js, PostgreSQL, DynamoDB, DBT, Terraform, Pytest, Jest, AWS (Lambda, S3, Aurora, DynamoDB, EC2, Amplify, Cognito, SNS, CDK, CloudWatch)*
- **FeedProfessionals Ltda.** Buenos Aires, Argentina
Junior Python Developer *January 2023 – July 2023 (7 months)*
 - **Data Pipeline Automation:** Automated the customs data pipeline, improving report delivery time by 75% through analysis of datasets covering 5+ products from multiple countries across South America over 10+ years.

- **Data Gathering:** Implemented efficient data collection and processing workflows to support business intelligence and reporting needs.
→ *Python, NumPy, Pandas, WordPress, AWS (EC2), Looker Studio*
- **University of Calgary** Calgary, Canada
ELAP Scholarship Holder (Student Exchange) *June 2022 – December 2022 (6 months)*
 - **Research Collaboration:** Collaborated with a research team on publishing an article in a leading academic journal, contributing to neuroscience research methodologies.
 - **Academic Excellence:** Secured scholarship in recognition of academic excellence, covering tuition, mobility expenses, and stay in Canada.
→ *Python, NumPy, Pandas, SPSS, R, R Studio, Tidyverse*
- **Cognitive Neuroscience Laboratory (UdeSA)** Buenos Aires, Argentina
Research Assistant (Internship) *March 2022 – June 2022 (6 months)*
 - **Machine Learning Research:** Documented and reviewed Python code in a machine learning (NLP) clinical project for early detection of dementia, contributing to research methodologies and reproducibility.
→ *Python, NumPy, Pandas, Matplotlib, NLTK, SpaCy*

EDUCATION

- **University del Salvador** Buenos Aires, Argentina
Bachelor of Science in Psychology; GPA: 9.17/10.0 (Top 5% of degree) *March 2019 – December 2022*
 - **Research Excellence:** Discontinued after 4 years out of 5 to pursue career transition. Intensively participated in a Cognitive Neuroscience research lab, gaining strong analytical and research skills.
 - **Self-Directed Learning:** Highly motivated to learn computer science, enrolled in multiple data science and software development courses alongside degree studies.
 - **Specialized Coursework:** Completed university courses in Data Structures & Algorithms, Programming, and Operative Systems, building strong foundations in computer science.
- **University of Calgary** Calgary, Canada
Exchange Student, Cognitive Science (ELAP Scholarship Holder) *August 2022 – January 2023*
 - **Academic Focus:** Completed coursework in Statistics & Research Methods, Neuroscience, and Psychometry, utilizing IBM SPSS for statistical data analysis.
 - **Career Catalyst:** Academic experience reinforced commitment to pursuing software engineering, bridging cognitive science with technical problem-solving approaches.

PROFESSIONAL DEVELOPMENT

- **Le Wagon** Amsterdam, The Netherlands
Data Engineering Course (360 hours) *Completed*
 - **Curriculum:** Intensive Python-based curriculum focused on modern data workflows, including data preparation, ETL automation, visualization, and machine learning pipelines.
- **Digital House** Buenos Aires, Argentina
Web Development *August 2021 – February 2022*
 - **Front-End Development:** Enhanced proficiency in wireframing, layout design, styling, animation, and DOM manipulation using modern JavaScript frameworks for responsive, mobile-first, single-page applications.
 - **Back-End Development:** Developed expertise in relational database management, server-side programming, and RESTful API integration following agile methodologies and coding best practices.

CERTIFICATIONS

- **AWS Certified Cloud Practitioner:** Amazon Web Services (December 2023 – Expires December 2026)
- **AWS Solutions Architect Associate (WIP):** Amazon Web Services (November 2025 – Present, In Progress)

LANGUAGES

- **English:** IB English as Second Language – Full Professional Proficiency
- **Spanish:** Native level
- **French/Portuguese/Dutch:** Basic conversational level

AWARDS & CONGRESS

- **Emerging Leaders in the Americas:** Secured scholarship in recognition of academic excellence, covering tuition, mobility expenses, and stay in Canada (June 2022 – December 2022)
- **XIII International Research and Practice in Psychology Congress:** Delivered a workshop on Programming in R for Researchers at Universidad de Buenos Aires