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