

# Jose Herrera Roman

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## PROFESSIONAL SUMMARY

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Software developer specialised in backend development using Java and Python, with hands-on experience building full-stack applications and REST APIs. Skilled in containerisation using Docker, version control with Git, and deploying scalable solutions on AWS. Strong foundation in software architecture and object-oriented programming, combined with practical problem-solving skills and effective collaboration in team environments.

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## TECHNICAL SKILLS

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**Programming Languages:** Java, Python, SQL, HTML, CSS, JavaScript

**Frameworks & Libraries:** Spring Boot, Flask, React, Next.js, Tailwind CSS

**Databases:** PostgreSQL, MySQL, SQLite, Oracle, MongoDB

**Cloud & DevOps:** AWS, Docker, Git, GitHub Actions

**AI & Automation:** Claude Code, OpenAI Codex, GitHub Copilot, Cursor

**Personal Skills:** Analytical problem-solving, Collaborative development

**Interests:** Open-source, Cloud and AI technologies, Surfing, Fitness, Outdoor activities

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## PROJECTS

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**Cash Cards** – REST API | Java, Spring Boot, PostgreSQL

Jun 2025

- Designed and developed a backend system for managing digital cash cards, implementing full CRUD functionality using Spring Boot.
- Structured the application using layered architecture (controller, service, repository) and object-oriented principles to improve scalability and maintainability.
- Implemented secure authentication and role-based authorisation with Spring Security, enabling access control to protected endpoints.
- Integrated PostgreSQL with JPA/Hibernate and managed database schema migrations using Flyway.
- Developed unit and integration tests using JUnit and Testcontainers to ensure reliability of business logic and API responses.
- Containerised the application with Docker and configured CI/CD pipelines using GitHub Actions.
- GitHub: [github.com/joherrer/cashcards](https://github.com/joherrer/cashcards)

**Gold Coast Surf Forecast** – Web Application | Python, Flask, PostgreSQL

May 2024

- Developed a full-stack web application providing real-time surf condition data from an external API across multiple locations.
- Built backend services using Flask and SQLAlchemy, supporting user accounts, session management, and persistent data storage.
- Implemented secure authentication with password hashing using Werkzeug and ensured CSRF form protection using Flask-WTF.
- Designed a responsive user interface using Bootstrap and Jinja2 templates, ensuring usability across desktop and mobile devices.
- Containerised the application with Docker and deployed it on AWS using EC2 and EBS, enabling scalable and reproducible environments.
- Configured CI/CD pipelines using GitHub Actions to automate testing and deployment workflows.
- GitHub: [github.com/joherrer/forecast](https://github.com/joherrer/forecast)

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## RELEVANT WORK EXPERIENCE

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### Software Developer | Freelance

*Jan 2024 – Present*

- Built and deployed full-stack applications using Python/Flask, Java/Spring Boot, and JavaFX, including RESTful APIs and desktop applications.
- Designed and maintained relational databases (PostgreSQL, MySQL) and implemented automated testing with JUnit and Pytest to improve reliability and data integrity.
- Streamlined development workflows using Git, Docker, and GitHub Actions, and deployed applications on AWS to improve scalability and deployment efficiency.

### Construction Labourer | Live Build Pty Ltd

*Sep 2021 – Dec 2023*

- Collaborated within team-based environments to complete construction projects on schedule, contributing to efficient workflow and meeting tight project deadlines.
- Ensured strict compliance with workplace health and safety regulations by proactively identifying hazards and maintaining clean, organised work environments.
- Performed physically and technically demanding tasks across multiple project stages, demonstrating reliability, discipline, and strong work ethic.

### Sales Representative | McAfee

*Jun 2017 – Jan 2018*

- Promoted and sold cybersecurity solutions by identifying customer needs and recommending tailored products aligned with risk profiles and usage requirements.
- Built and maintained strong customer relationships through effective communication and in-depth product knowledge, increasing customer trust and retention.
- Consistently achieved and exceeded sales targets by adapting sales strategies to customer feedback and emphasising value-driven solutions.

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## CERTIFICATIONS

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- AWS Certified Cloud Practitioner
- CS50 & CS50P – Harvard University
- SQL Certificate – Codecademy
- Java Programming I & II – University of Helsinki

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## EDUCATION

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### Queensland University of Technology (QUT)

Master's Degree in Cybersecurity

*Starting Jun 2026*

Brisbane, Australia

### Complutense University of Madrid (UCM)

Bachelor's Degree in Commerce

*Sep 2019*

Madrid, Spain