JUAN VILJOEN
SOFTWARE ENGINEER

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About Me

I am a passionate back-end engineer with hands-on experience in software development and a strong foundation in cloud computing. Continuously learning new technologies, I strive to build scalable, secure, and reliable solutions. I thrive in collaborative environments and am eager to contribute to innovative teams and drive organizational success.

Technical Skills

Languages & Frameworks C#/.NET (Proficient), JavaScript (Proficient), TypeScript (Proficient), Rust (Basic), React (Proficient), Flutter (Proficient), HTML (Proficient), CSS (Proficient), SQL (Basic)
Cloud & DevOps: AWS (Proficient), Firebase (Basic), Docker (Basic), Git (Proficient)
Soft Skills: Problem Solving, Strong Communication, Deep Learning

Experience

Dynamic Build Systems   **June 2025 – Present**
Software Engineer   *Stellenbosch*

- Develop and maintain DBS Historian, a C# and SQL-based system designed for industrial data acquisition and analysis.
- Implement communication with PLCs using MQTT, OPC Scout, and UA Expert to read and process machine tags efficiently.
- Design and optimize SQL database structures to store, manage, and analyze large volumes of process data.
- Build real-time data trends and KPI dashboards for Element Six (De Beers) to support performance monitoring and decision-making.
- Enhance system reliability through continuous code improvements, documentation updates, and proactive technical support.

Culture Systems   **July 2024 – May 2024**
Software Engineer   *Remote*

- Developed a comprehensive business management system tailored for Agri-Manufacturing for client VA Milling.
- Built a solution that streamlines key operations including accounting, sales, production, and logistics, enabling efficient workflow management.
- Integrated the system with QuickBooks API for seamless accounting processes.
- Implemented backend using Rust with a KV store database, ensuring high performance and reliability.
- Developed frontend in Flutter, providing a modern, cross-platform user interface for optimal user experience.

Kaha   **Oct 2023 – June 2024**
Software Engineer   *Cape Town*

- Developed an external data adapter for Fen-X to integrate Dunn and Bradstreet's Direct+ API.
- Utilized .NET and AWS technologies, including API Gateway, Lambda, and SQS, to enable seamless data exchange.
- Implemented Infrastructure as Code (IaC) using Pulumi for streamlined deployment and management of AWS resources.
- Ensured the solution adhered to asynchronous communication patterns and met all specified requirements.
- Contributed to a Fenergo UI team focused on enhancing the core product, Fen-X, by adding new features to the user interface.
- Leveraged React and TypeScript to implement UI enhancements, ensuring a seamless and intuitive user experience.

Education

AWS   **2023**
Certified Cloud Practitioner

Hyperion Dev   **2022 – 2023**
Full Stack Web Development

Wesvalia High School   **2008 – 2012**
Secondary School Education   *Klerksdorp*