



BRANDON VAN VUUREN

Systems Engineer

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EDUCATION AND QUALIFICATIONS

Bachelor of Science in Information Technology

North-West University (NWU)

01/2022 – 11/2025 | Vanderbijlpark, Gauteng

- Academic average of 82%
- Focus areas: software development, databases, computer networks, information security and AI

NQF Level 5 Certificate, Live Performing Arts

Campus of Performing Arts (COPA)

01/2020 – 12/2021 | Johannesburg, Gauteng

SKILLS

C# (.NET)

Enterprise backend development on .NET 8 and ASP.NET, layered service design and REST APIs, including migration of a production .NET Framework 4 platform.

SQL Server & Data

T-SQL, stored procedures, views, data modelling, reporting and performance-aware query design in Microsoft SQL Server; PostgreSQL and Redis.

Node.js & React

Full-stack product work in Node.js, React, Next.js and TypeScript, including the StrataTrac financial system and 160+ client sites on Vercel.

Systems & Networking

Windows and Linux environments, PowerShell automation, TCP/IP, DNS and DHCP, system configuration and troubleshooting.

DevOps & Tools

Git and GitHub, Docker, CI/CD pipelines, Visual Studio, VS Code, SSMS and REST API tooling.

AI & Automation

WhatsApp bots and AI calling agents, LLM fine-tuning (LoRA / QLoRA), document AI with OCR, and agentic tooling (Claude Code, MCP).

PROFILE

Systems Engineer and Partner Director who keeps production software running and builds new products beside it. At BCMTrac I work on a live enterprise SaaS platform: migrating an ASP.NET estate from .NET Framework 4 to .NET 8 under strict architecture standards, owning the C# backend and SQL Server data layer, and building StrataTrac, a complete financial system, in Node.js and React. At Axiom Web Solutions I co-direct a studio with 160+ live client websites and sell AI automation: WhatsApp bots and AI calling agents. Systems-first, disciplined, and quick to become productive on large, unfamiliar codebases.

WORK EXPERIENCE

Systems Engineer

BCMTrac

08/2025 – Present | Remote

- Migrating a production ASP.NET enterprise SaaS platform from .NET Framework 4 to .NET 8, applying strict coding and architecture standards: clear layer boundaries, testable seams and incremental change rather than rewrites.
- Building StrataTrac, a complete financial system, as a modern Node.js and React application, modernising the legacy product's data model, workflows and reporting.
- Develop and maintain C# backend services and the SQL Server data layer: stored procedures, views, complex queries and performance-aware query design.
- Resolve production defects and ship controlled enhancements on a live, reliability-focused platform: Git-based review, CI/CD, PowerShell and Docker across Windows and Linux.

Partner Director

Axiom Web Solutions

2025 – Present | Vanderbijlpark, Gauteng

- Co-direct a web and AI studio with 160+ live client websites across South Africa (barbers, salons, dental practices, trades and auto), built on Next.js and React and deployed on Vercel.
- Sell and deliver AI automation: WhatsApp bots that handle bookings, quotes and customer queries, and AI calling agents that answer and place calls for clients.
- Built the studio's billing platform (Next.js, TypeScript, PostgreSQL, Stripe) for quotes, invoices and recurring billing; own delivery end to end, from scoping to hosting and support.

CERTIFICATES

Peer Tutoring Programme: Facilitated Learning

North-West University, Faculty of Natural and Agricultural Sciences

2023 | Vaal Campus

LANGUAGES

English

Afrikaans

INTERESTS

AI pipelines and fine-tuning

Building AI-driven automation pipelines and fine-tuning models for domain-specific tasks.

Music

Guitar and piano, with a background in live performance.

AVAILABILITY

Based in Vanderbijlpark, Gauteng. Open to remote, hybrid and on-site roles across Gauteng. References available on request.

WORK EXPERIENCE (CONTINUED)

IT Intern

North-West University

01/2024 – 12/2024 | Vanderbijlpark, Gauteng

- Built internal support tools for the computer science programme, including structured data cleaning and preparation of research datasets.
- Designed and maintained a mentorship platform and digital resources for third-year and Honours students.
- Improved eFundi (LMS) and departmental workflows with cloud collaboration tools, improving accessibility, data consistency and turnaround.

Student Assistant and Peer Tutor

North-West University

01/2023 – 12/2023 | Vanderbijlpark, Gauteng

- Tutored first-year computer science students, turning programming concepts into clear explanations; certified under the NWU Peer Tutoring Programme.
- Coordinated a team of fellow assistants to keep weekly grading and administration on schedule; supported lecturers with grading and LMS administration (eFundi, Teams, Excel).

SELECTED PROJECTS

StrataTrac rebuild

A complete financial system for the BCMTrac product family, rebuilt as a modern Node.js and React application while the legacy product stays live.

Node.js · React · REST APIs

WhatsApp bots and AI calling agents

Conversational bots and voice agents sold through Axiom: bookings, quotes, FAQs and follow-up calls handled automatically for small businesses.

LLM APIs · WhatsApp Business · Voice / telephony

Custom LLM fine-tuning pipeline

Automated fine-tuning with LoRA / QLoRA, automated evaluation and A/B testing. Measured 60% lower training cost on domain-specific tasks.

Python · PyTorch · Hugging Face · MLflow · Docker

AI invoice management system

OCR extraction, validation, duplicate detection and ERP integration for multi-format invoices. Cut manual processing time by about 80%.

Python · TensorFlow · FastAPI · PostgreSQL · Celery · Redis

Also: Axiom billing platform (Next.js, Stripe) · ClearVue streaming analytics (Kafka, 10k+ events/s) · NWUMessenger (led a seven-person Flutter team) · a drivable 3D portfolio (three.js, Rapier). Full gallery with screenshots at brandonvv.com.