

Jacques Barnard

Senior Software Engineer

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PROFILE

As a senior software engineer dedicated to collaboration and personal growth, I tackle complex challenges with patience and creativity. Driven by curiosity and a readiness for constructive feedback, I thrive in dynamic environments and naturally step into leadership roles. My mission is to deliver impactful solutions aligned with business goals, leveraging my skills to foster growth and success while continuously advancing my expertise.

EXPERIENCE

Founder & Senior Software Engineer - Tri2b (Pty) Ltd

2024 - Now

Solo studio building fullstack products for clients and side experiments. Laravel + Inertia front-of-house, self-managed Kubernetes cluster behind the scenes.

Stack: *Laravel, Inertia, Kubernetes, PostgreSQL.*

Senior Software Engineer - Baobab Web Services

Oct 2024 - Dec 2025

Contract engineering for BWS and its client portfolio. Primary project: RE/MAX hub - a Laravel + React property management platform - plus supporting services including a Laravel public site and an AWS Lambda listing-description agent (LangGraph + Gemini).

Stack: *Laravel, React, AWS, Python, LangGraph.*

Senior Software Engineer - MOHARA Ventures, Cape Town

2019 - 2024

Five years across a wide range of greenfield and brownfield products - IoT pipelines, fintech microservices, data warehousing, housing platforms. Led projects end-to-end, mentored junior engineers, and collaborated with distributed teams across five countries.

Stack: *AWS, GCP, Laravel, React, Node.js, Kubernetes, Terraform.*

Temporary Junior Lecturer - North-West University, Potchefstroom

Jun - Oct 2019

Co-lectured the C for Engineers module alongside an M.Sc. student. Set and graded assignments and exams, and mentored a cohort of engineering undergraduates through foundational programming concepts.

Stack: *Teaching, Mentorship, C.*

SELECTED PROJECTS

PARAMOS - Architect & Technical Lead

2024 - present

Multi-tenant SaaS for workspace and subcontractor management - Laravel + Inertia + React on GCP Cloud Run, fully isolated per-tenant databases, Typesense search, all infrastructure in Terraform.

Stack: *Laravel, React, TypeScript, GCP, Terraform.*

RE/MAX - Lead Software Engineer

2026 - present

Three-part platform for RE/MAX South Africa: a Laravel + React property management hub, a Next.js public search portal, and an AWS Lambda AI listing-description agent (LangGraph + Gemini with vision and tool-calling).

Stack: Laravel, React, Next.js, Python, AWS, AI.

Synapse Notes - Solo build

2024 - present

Multi-tenant knowledge API that decomposes notes into atomic, vector-indexed parts via LLM. Go + pgvector on PostgreSQL, REST + MCP + OAuth 2.1, deployed on self-hosted Kubernetes.

Stack: Go, PostgreSQL, pgvector, Redis, Kubernetes.

Projects - Solo build

2023 - present

Distributed task coordination service for agent workflows - projects, tasks, and subtasks with dependency edges and gRPC work-leasing. pctl CLI, Bubble Tea TUI, and MCP skill integration.

Stack: Go, gRPC, PostgreSQL, Kubernetes, MCP.

Go-Places - Lead Software Engineer

2023 - 2024

Unified marketplace dashboard consolidating sales, inventory, and traffic data from Amazon, TikTok Shop, and others into an AWS Redshift warehouse with QuickSight on top. Serverless TypeScript on Lambda, Terraform-managed.

Stack: AWS, TypeScript, Terraform, Redshift.

EVO - Senior Software Engineer

2022 - 2023

Housing maintenance platform connecting owners, tenants, and contractors. Led the zero-downtime migration of the monolith to GCP Cloud Run, rebuilt auth and invoicing, and shipped a Next.js tenant site.

Stack: Laravel, GCP, Next.js, TypeScript, Terraform.

Kikapay - Software Engineer

2021 - 2022

Open banking payment facilitator generating secure EFT links so vendors never store credentials. Python gRPC microservices on Kubernetes; worked across payment execution and webhook delivery with retry/back-off.

Stack: Kubernetes, Python, Terraform, Microservices.

EMSOL - Junior Software Engineer

2019 - 2021

IoT air quality monitoring for construction sites - edge devices stream readings over MQTT to AWS IoT Core for threshold-based compliance alerting, with a React dashboard for live and historical data.

Stack: AWS, IoT, Node.js, React.

Earlier: Valinor Intelligence, Stoa, SML, Triga.

SKILLS

Backend: Laravel, PHP, Go, Node.js, Python, gRPC, MCP, REST

Frontend: React, Next.js, Vue, Inertia.js, TypeScript, Tailwind

Data: PostgreSQL, MySQL, Redis, pgvector, Typesense, MongoDB, DynamoDB

Cloud: AWS, GCP, Kubernetes, Terraform, Docker

Practice: Architecture, Tech leadership, Mentorship, Code review

EDUCATION

Hons. B.Sc. Computer Science - North-West University (2017)

B.Sc. Computer Science - North-West University (2014 - 2016)

LANGUAGES

Afrikaans (native), English (proficient)

REFERENCES

References available on request.

CONTACT

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