

Staff Software Engineer — *payments, firmware, SDK architecture.*

01 Profile

I build payment systems — from bare-metal firmware on ARM chips to cloud-connected POS integrations used by hundreds of thousands of merchants. Ten years across Cape Town and Amsterdam: EMV, card machines, SDK architecture, and scheme certification end to end.

10+

YEARS IN PAYMENTS

R217B+

PROCESSED

448K+

MERCHANTS SERVED

8

CARD MACHINES CERTIFIED

02 Experience

Yoco Technologies AMSTERDAM

APR 2022 — PRESENT

Staff Software Engineer

Oct 2024 — Present · Current

- Led multiple product initiatives — driving planning, refinement, and cross-team alignment.
- Led L3 payment certifications for 5 card machines across 3 manufacturers plus iPhone, covering Visa, Mastercard, and Amex — end-to-end: EMV config, Fime/UL test execution, acquirer network logs, scheme submission, and failure remediation.
- Driving AI adoption across engineering — department-wide presentations, workshops, and establishing AI agent instruction files across projects.
- Cross-functional leadership across product, design, and engineering.

Kotlin Swift EMV Visa/MC/Amex Cert

Senior Software Engineer

Apr 2022 — Oct 2024

- Led the Cloud Integration — merchants initiate payments from third-party POS software via MQTT and a cloud server, auto-reconciling results without manual intervention. Card machine as authoritative source of truth, protecting valid payments from connectivity failures.
- Payment logic & security — encryption, business logic, payment switch communication.
- SDK & third-party integrations — card machine manufacturer SDKs and third-party POS vendors.
- Bluetooth and cloud integrations bridging POS apps and card machines.

Kotlin Swift POS Integrations SDK Architecture

Ono Connect AMSTERDAM

APR 2021 — APR 2022

Senior Software Engineer

Apr 2021 — Apr 2022

- Integrated the Khumo Print card machine into Ono's platform.
- Maintained and extended the Payments SDK.
- Optimised transaction workflows for reliability and security.

Kotlin SDK Architecture

Senior Software Engineer

Jul 2018 – Apr 2021

- Built and launched the mobile app, business admin portal, and backend server.
- Took the online payment solution from zero to beta.
- Embedded development: firmware for the Yoco Neo card machine in C on ARM.
- Led Visa & Mastercard certification of Yoco Neo — end to end.
- Integrated and launched the Khumo Android-based card machine.

Kotlin C Scala React Native Python Visa/MC Cert ARM Firmware

ACI Worldwide CAPE TOWN

JAN 2016 – JUN 2018

Software Engineer

Jan 2016 – Jun 2018

- Built in-store payment systems — EMV chip, magnetic stripe, and RFID processing.
- Integrated PIN Entry Devices and POS systems.
- Database transactions and six months as Scrum Master driving agile adoption.

Java Python SQL EMV

03 Skills

LANGUAGES

Kotlin Swift C Java Scala Python

PAYMENTS & POS

EMV POS Integrations Visa/MC Cert Payment Switch

Card Machines Amex Cert

EMBEDDED & MOBILE

ARM Firmware SDK Architecture Bluetooth Android iOS

TOOLING & PRACTICE

React Native SQL Cloud APIs MQTT Scrum AI Tooling

05 Beyond the Code

Professional musician (saxophone, guitar, vocals) — toured and recorded with Grassy Spark, 7th Son, Kings Down South; performed in Rocky Horror Show. Festival dates in ZA & NL, audiences up to 15,000.

Multi-sport athlete — rugby, tennis, water polo, squash, running.

04 Education

BSc Computer Science & Business Computing

University of Cape Town · Cape Town, ZA

BA Law & Jazz — *Uncompleted*

University of Cape Town · Cape Town, ZA

National Senior Certificate

South African College Schools (SACS) · Cape Town, ZA