Callum van Heerden

callumvanheerden@outlook.com | github.com/callumvh | callumvh.com

Work Experience

Verishare Software (Junior Software Developer)   2021/05 – present

- **Telegram Chatbot**: I built a Telegram chatbot from scratch to production for debtors to be able to see their accounts, pay their balance using PayAt, create repayment plans and create debit orders, all without talking to anybody. (Almost 400 users)
  - Java, Spring Boot
  - Spring Statemachine
  - rubenlagus/TelegramBots library
  - SQL Server and Stored Procedures for Statemachine session persistence and logging
  - Event-driven model
  - Excel report generator for observability
  - E2E testing for the user flow
  - Reactive streams with Spring Reactive, WebFlux, Mono, used with Spring Statemachine and the Telegram library
  - Built a PlantUML chart exporter for the Statemachine diagram

- **PayAt API integration**: I worked on upgrading a legacy SOAP integration with PayAt to their new REST API using Spring Boot

- **VeriCred Credit Bureau (VCCB) API integration**

- **Database as code**

- **Go-clockify**

- **VeriNet scripts using powershell**

Education

Benoni High School   2013 – 2017
Studied IT from Grade 10 - 12

UNISA (part-time)   2020 – 2022
Diploma in Information Technology (discontinued to transition to BSc Computing)

UNISA (part-time)   2023 – 2024
Higher Certificate in Mathematics and Statistics (one module left) (working towards BSc Computing)

UNISA (part-time)   2024 –
Bachelor of Science in Computing (not started yet)

Projects

- **Homelab**

This is my most recent personal project

- **T Shirt Viewer**

- **CV**: This CV was created using Typst, which is a markup-based typesetting system and alternative to Latex/MS Word for document creation. Here is the link to the repo: callumvh/cv

- **Stitch Money API Android App(Incomplete)**: This was an incomplete Android app where the idea was to have a budgeting feature using real bank data from the Nedbank API indirectly through the Stitch API. I got as far as creating a graph of an account balance over time using their test API. I used Jetpack Compose for Android.

- **Interest calculator**: This was a simple interest calculator as a tech-challenge which was required for landing my job at VeriShare

- **Evetech-clone**: This was a basic frontend clone of the website evetech.co.za using Stencil.js

- **Reddit-clone**: This was one of of my favourite personal projects, I created a clone of Reddit.com using their API (before it was exorbitantly expensive). I used Python and Flask to build the application, you could go to any subreddit and see all the popular posts but it was read-only.