Callum van Heerden

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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
Matric NSC - *Studied IT from Grade 10 - 12*

UNISA (part-time)
- *Diploma in Information Technology (discontinued to transition to BSc Computing)*   2020 – 2022
- *Higher Certificate in Mathematics and Statistics (one module left) (working towards BSc Computing)*   2020 – 2022
- *Bachelor of Science in Computing (not started yet)*   2024 –

Projects

- **Homelab**: This is an overkill homelab where I use Kubernetes (K3S distro)
- **Interest calculator**: This was a simple interest calculator as a tech-challenge which was required for landing my job at VeriShare
- **Reddit clone**: I created a clone of Reddit.com using their API. 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.
- **T Shirt Viewer**: This was a simple Vue.js project where you could design a t-shirt by uploading an image and placing it on the front and back of a t-shirt
- **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