

ALLAN SIMOYI

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EDUCATION

Bachelor of Commerce in Information Systems
Midlands State University

Mar 2018 - Apr 2022
Gweru, ZW

- **Dissertation:** Machine Learning Based License Plate Recognition Mobile App
- **Relevant coursework:** Programming, Database design, Operating Systems, Simulation and Modeling, Management Information Systems, Data Communications and Networks.

EXPERIENCE

Lead Software Engineer
Road Rules Solutions

Dec 2022 - Present
Harare, ZW

- Led the **design and implementation** of a **provisional driving license test taking platform** using **Electron**. The platform grew and we've since partnered with the **Traffic Safety Council of Zimbabwe**.
- Also built corresponding **mobile and web apps** for license test preparation, the **admin portal** and **dashboard for the analytics**.
- Used my previous experience to develop more **systemic testing** plans to **identify and document bugs**, **improving turnaround time, reliability and UX** overall.
- Refactored a legacy KYC service written in **PHP**, **migrated it to Remix** and **improved the API's performance by at least 40%** as of the latest metrics.

Full Stack Software Engineer
TBGA Consulting Group

Apr 2021 - Dec 2022
Harare, ZW

- Migrated the codebase of an **internal CRM product** managing over **200+ company customer records** from using **GraphQL** to **tRPC**, insisting on **type-safety** and **improving DX**.
- Led the addition of product features to the CRM product, from **identifying and processing requirements** to the **implementation, configuration of metrics, alerts and analytics dashboards**.
- Wrote and maintained **70+ tests** on API calls and select components raising **code coverage from around 60% to 95%** after the rewrite.
- **Set up and migrated to a custom monorepo** using early **PNPM workspaces** to enable our fellow developers to more easily implement the different marketing experiments required including **standard A/B testing** and some **multivariate testing**.

PROJECTS

MakeMyPDF | *TypeScript, React, Playwright, MySQL, Prisma, Tailwind*

June 2025 - Present

- Built an API that developers can use to generate pixel-perfect PDFs from an HTML string or URL.
- The product generates an automatic table of contents, header, footer and page numbers too.
- Built it to help automate the generation of custom reports to be archived, get previews of any website and for integration with other pipelines. This was also a solution to an integration problem I faced during my work on Property267.

Property267 | *TypeScript, React, RemixJS, MySQL, Prisma, Tailwind, Cloudinary*

May 2023 - Aug 2023

- Created a standard property marketplace, but taking into account speed & reliability given most users don't have reliable internet.
- Chose Remix to effectively implement progressive enhancement and better DX for future maintainers.
- Used cloudinary to store and compress property images to enable fast and load times and responsive design.

QuickLoans | *TypeScript, React, tRPC, SQLite, Zustand, Tailwind*

Oct 2021 - Nov 2021

- A web-based loan application and interest comparison platform for Zimbabweans.
- Built it in a couple of months to better connect several microfinance lenders to prospective customers.
- Automates a custom credit rating according to lender activity on the platform. Implemented an algorithm to best match loan seekers to lenders best suited to them.

SKILLS

Languages: TypeScript, JavaScript, Python, Go, C, C++, Java, PHP, HTML/CSS, SQL, Bash

Frameworks & Libraries: React, React Native & Expo, Node, Remix, Next, Electron, tRPC, Tanstack Query, Express, Prisma, Redux, Zustand, Tailwind

Tools: Linux, Git, PNPM, Turborepo, Docker, SQLite, MySQL, VSCode, Makefile, CI/CD, Playwright, Cloudinary