ALLAN SIMOYI

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EDUCATION

Bachelor of Commerce in Information Systems — Mar 2018 - Apr 2022
Midlands State University — *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 — Dec 2022 - Present
Road Rules Solutions — *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 the corresponding **web apps in Angular and RxJS** for license test preparation, the **admin portal** and **dashboard for the analytics**.
- Used my previous experience to develop more **systemic testing** using **Jest** and (React) **Testing Library** to **identify and document bugs**, **improving turnaround time, reliability and UX** overall.
- Refactored a legacy KYC service written in **PHP, added and React** and **improved the API's performance by at least 40%** as of the latest metrics.

Full Stack Software Engineer — Apr 2021 - Dec 2022
TBGA Consulting Group — *Harare, ZW*
- Migrated the codebase of an **internal CRM product** managing over **200+ company customer records** from using **PHP to Angular**, 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, NextJS, Playwright, Redux, 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, NextJS, PostgreSQL, Prisma, Tailwind, Cloudinary* — May 2023 - Aug 2023
- Wrote the first version of the platform in Angular and RxJS to establish a stable structure for fellow developers.
- Codebase migrated to Remix to effectively implement progressive enhancement following user feedback and considering internet speed issues.
- Used cloudinary to store and compress property images to enable fast and load times and responsive design.

QuickLoans | *TypeScript, PHP, PostgreSQL, React, 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, PHP, .NET, Go, C, C++, Java, HTML/CSS, HTMX, SQL, Bash

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

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