

ORATILE NAILANA

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Personal Statement

As a driven computer science and Computational Applications student at the University of the Witwatersrand, I have cultivated a strong foundation in software development, cloud computing, and project management. My journey in tech has allowed me to turn concepts into practical solutions, such as developing Tandem, a project management tool designed to enhance team collaboration and efficiency. With a broad technical skill set, including expertise in Python, Java, web development (React, HTML, CSS, express.js), and cloud services (AWS, Azure). I am eager to contribute to innovative projects that drive meaningful impact in the tech industry.

Currently, I am eager to leverage my skills and passion at Syft Analytics, where I can contribute to creating innovative solutions that drive business insights and efficiencies. I am particularly excited about Syft Analytics' focus on advanced data analytics and the opportunity to collaborate with a forward-thinking team that is shaping the future of financial reporting and business intelligence.

Education

Hoërskool Bekker

- NSC (Bachelor's Pass)
- AdMaths Program (AP Math)

University of The Witwatersrand

- Final year BSc Computer Science and Computational Applications (current year: 3rd year, expected graduation: April 2025)
- Majors: Computer Science and Computational Applications
 - With added focuses on Machine Learning, Parallel Computing, Computer Graphics and Visualisations and Operating Systems.
- Minor: Applied Mathematics and Mathematics

Work History

Asambe Travel (2022):

- Freelance work
- Built a web app for consumers to book online and CMS for employees to conduct business processes.
- Migrated MySQL database from old system to new system.
- Digitized the company to facilitate access their services online replacing WhatsApp as the primary tool for all bookings and queries. This meant the staff could allocate their time more productively.

Notable Side Projects

Circle – Social Network (2023):

- Worked on building a social networking app. The scope of this project covered the front and backend using various technologies including React Native, Django and various AWS services.
- Worked on the feed recommender system to enable for more targeted posts to users.
- Worked on the translation system that enabled users of different languages to translate to their native language.
- IaC (Terraform) workflow to allow for easy spin up of AWS services for app services.
- Worked on growth hacking the product.

Notable – Productivity App (2023):

<https://github.com/retr0-spection/notable-frontend-mobile.git>

- The scope of this project covered the front and backend.
- 3rd party authentication (SSO) was implemented.
- Django backend and React Native frontend

Tandem – Project Management App (2024):

tandemworkflow.com

- Retrieval Augmented Generation (RAG) project management tool used to help teams keep track of complex tasks from conception to completion.
- Bootstrapped using AWS free tier (EC2, ECS, ECR, ELB)
- T4 architecture with horizontally scalable Node.js backend chained with Next.js frontend.
- Used LLM (llama3) to enable context and provide project analytics

More on Github: github.com

Skills

- Proficient in Python, C/C++, Java, JavaScript, MySQL, Postgres, bash, MongoDB
- Technologies: Django, Node.js, Flask, RDMS, React, React Native, Kubernetes
- AWS: S3, EC2, ECS, ECR, CloudFront, Lambda, Code-Pipeline, EKS
- CI/CD workflows, GitHub Actions
- GitHub, GitLab
- Microsoft Azure

Hobbies and interests

- Video Games
- Music and musical Instruments (particularly guitar)
- Generative AI
- Hackathons
 - AdaptIT hackathon (2023)

- Syft Analytics hackathon (2024)
 - Top 30 placement