

Sinomtha Ayakhanya Mzamo

Aspiring Software Engineer

✉ mzamo.sinomthaayakhanya@gmail.com ☎ 0786198522 📍 Cape Town, Western Cape 🏳️ She/Her

🌐 linkedin.com/in/sinomtha-mzamo 🐙 github.com/sinomthamzamo

Profile

I'm a recent Systems Development graduate and current Software Engineering Intern with hands-on experience in full-stack development, UI/UX design, and cloud fundamentals. My technical toolkit includes Python, Java, TypeScript, and JavaScript, along with exposure to Node.js, React, and PostgreSQL.

Through my internship at Safety io and personal projects like Bhala Edolweni, I've designed and built scalable applications, implemented and tested Figma prototypes, and collaborated in agile workflows including stand-ups, retrospectives, and pair programming.

These experiences have sharpened both my technical versatility and my ability to communicate abstract ideas clearly and effectively — a skill I consider essential for working with AI systems. I'm excited by opportunities that are flexible, impactful, and value detail-oriented thinking. I'm currently preparing for my AWS Cloud Practitioner certification and eager to contribute my coding fluency and systems thinking to Outlier's mission.

Professional Experience

Safety IO

Software Developer Intern

01/2025 – Present

Cape Town,
South Africa

Role

- A multidisciplinary internship focused on full-stack development, design thinking, and cloud fundamentals.
- With hands-on exposure to a MEAN-style tech stack, TypeScript, and PostgreSQL.

Key outcomes

- Built and presented working fullstack apps as part of cross-functional teams
- Implemented the end-to-end design process, from problem definition to prototyping and usability testing in Figma
- Collaborated in agile ceremonies: daily stand-ups, retrospectives, stakeholder playbacks, and pair programming with senior engineers
- Designed internal artefacts using Miro
- Currently preparing for AWS Cloud Practitioner (CCP) certification while deepening cloud-related skills.

Self Employed

Private Tutor (Math & Science)

01/2017 – 11/2019

KIng William's Town,
South Africa

Role

- Tutored Grades 6–12 in Mathematics, Science, and English (younger students).
- Designed lesson plans and adapted teaching methods to student needs.

Notable Impact

Successfully helped a struggling Grade 10 student build foundational Math & Science skills from a Grade 3 level. Her improved confidence and skills enabled her to pass and improve her GPA by 50%, eventually graduating with a Bachelor's pass.

Projects

ClubConnect Website

09/2024 – present

Python, Flask, HTML, CSS, Java Script, REST API

- Co-developed a website for the WeThinkCode_ community to showcase the clubs across Durban campus.
- Currently implementing testimonial submission and storage in Google Drive, allowing uploads via Flask REST API.

Submitted to New Type Works Hacks Hackathon

Bhala Edolweni – Debtor Management Program

07/2024 – present

Python, REST API, MVC, React, Kotlin, KMP

- Created a debtor management app with CLI and React GUI frontends, and a REST API.
- Built comprehensive CRUD operations and gained hands-on experience in CORS management to ensure secure and smooth data access across client applications.
- Currently transitioning the backend to Kotlin for enhanced scalability and performance, leveraging Kotlin Multiplatform for cross-platform adaptability.

Minesweeper Game Development

03/2024 – 07/2024

Python, Pygame, Numpy, OOP, MVC

- Developed a Minesweeper game from scratch, applying OOP principles, following the MVC architecture for modular and scalable design.
- Integrated game logic with graph theory and Numpy for performance optimization.
- Designed a user interface using Pygame, showcasing proficiency in Python and game development fundamentals.

Badges & Certifications

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|---|--|---|
| - Project Management Fundamentals ↗ | - AWS Educate Machine Learning Foundations ↗ | - AWS Educate Getting Started with Networking ↗ |
| - User Experience Design Fundamentals ↗ | - SQL and Relational Databases 101 ↗ | - AWS Educate Web Builder ↗ |

Skills

Object-Oriented Programming (OOP)

Java, Python

Debugging & Troubleshooting

Java, Python, React, AWS

Agile Project Management

Web Development - MVC Architecture

Java, Python, React

UX design

Figma, Miro

Cloud Computing with Amazon Web Services (AWS)

Programming

Python, Java, React

Education

WeThinkCode_

Systems Development NQF 5

Grade: A-

Activities and Societies: WomenThinkCode_ (Committee Member), WomenThinkCode tech_wednesdays (Co-facilitator), PeerLift (Committee Member), Robotics Club (Member), Break The Silence (BTS) Club (Presentation Reviewer/Adjudicator)

Technical Skills:

OOP Programming in Python and Java, Test Driven Development, DevOps, Cloud Computing (AWS), Database Management Systems(SQL), Web & API Development,

Soft Skills:

Agile & Scrum, Communication, Public Speaking

Additional Skills: BDD, Reinforcement learning, problem-solving and critical thinking, Git, Agile project management, ORM, JDBC, Linux (Ubuntu), shell scripting.

09/2023 – 12/2024
Durban, South Africa

University of the Free State (Incomplete)

BSc Physics & Astrophysics

Course Work

- Completed advanced coursework in Vector Calculus, Differential Equations, Mathematical Modeling (Excel), and Scientific Computing (MATLAB), along with foundational and advanced studies in Physics, Chemistry, Astrophysics, and Engineering Statics.
- Gained hands-on lab experience and formalized scientific analysis through report writing.

Achievements & Skills

- Achieved six distinctions in the first year, showcasing strong skills in problem-solving, critical thinking, data analysis, technical report writing, and scientific computing.

01/2020 – 05/2022
Bloemfontein,
South Africa

Wynberg Girls' High School

NSC, High School Basic Education

Grade: A-

Activities and Societies: First Team Netball Captain, Current Affairs Society Member, Social Diving and Swimming Clubs Member, Social Tennis and Squash Clubs Member, Cross Country Club Member, First Aid Team Member

Academic Performance: Maintained a consistent record of academic excellence throughout.

Skills: Problem-solving, critical thinking, ability to understand and convey complex information, and public speaking.

01/2012 – 12/2016
Cape Town,
South Africa

Awards

Mukuru SheHacks Hackathon winner	09/2024
AWS DeepRacer Hackathon Participation Medallion	09/2024
Merit Bursary <i>University of the Free State (UFS)</i>	01/2020
5 NSC Distinctions with Top 10 provincial achievement for IsiXhosa NSC Results (Western Cape)	01/2017
Students for a Better Future Scholarship <i>Andreas and Susan Struengmann Foundation</i>	07/2011
Western Cape Provincial AstroQuiz Winner & Top 5 National AstroQuiz Finalist	09/2011

References

Aphiwe Mayatula, *Previous Client*, Private Tutoring
asa.mayatula@gmail.com, 078 656 8148

Stephen Jason, *Technical Mentor*, WeThinkCode_
stjason022@student.wethinkcode.co.za, 063 446 7507