

# Ngakana Salemane

Software Engineer | Data Analyst



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Address

Cape Town

### Education



Angular - The Complete Guide Udemv Certificate Of Completion 2022



Electro-Mechanical Engineering\* UCT

\*556 of 576 credits completed 2017 - 2020



#### Matric

Le-Reng Secondary School 100% Maths and Physical Science 2012 - 2016

#### **Socials**



https://www.github.com/ngakana

#### Interests

- User Experience
- System Architecture
- · Civic Tech
- · Logistics
- Retail
- Ed Tech
- Embedded Systems

### **Work Experience**



Geospatial Developer Esri South Africa

2023 May - 2024 May • Cape Town

- · Helped with implementation of an Angular web app and an ASP.NET Core RESTful API for an emergency management system for one of South Africa's provinces. Implementation was done using test driven development approach. We tested some of the critical Angular components using Playwright and did unit testing for all the API endpoints. I also attended the solution architecture and database design sessions to gain familiarity with UML diagrams and building databases using Microsoft SQL Server.
- Helped build an Android (client spec) custom navigation mobile application using .NET MAUI for use by crew members of dispatched emergency vehicles. My responsibilities were implementing UI designs and some of the backend services.
- Configured CI/CD pipelines for Angular and .NET applications on Azure DevOps



Y.E.S Candidate Esri South Africa 2022 May - 2023 April Cape Town

- · For my second project, I designed and built an end-to-end solution using Python, Angular, ASP.NET, jsreport and ArcGIS Maps SDK for JavaScript to develop an application to help property managers of a large retail chain to evaluate locations for candidacy to place new stores. Features included ability to interact with a map and select locations, retrieve a custom analysis report from the backend and render it within the web app with an option to download it as a PDF file.
- For my first project, I developed a machine learning model for a big diamond mining company using LiDAR data and **Python** to monitor rockfall hazard of an open-cast mine
- · Learned about S.O.L.I.D principles and how to implement them using Angular
- · Completed an Angular v14 online course
- Learned OOP and how to implement its practices using Python
- · Completed instructor-led GIS courses and a combination of online and instructorled courses for spatial data analysis with Esri South Africa College.

# Skills



**Software Engineering** 





#### **Tools and Technologies**

#### Languages











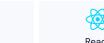
### Frameworks and Libraries



Angular







#### Markup and Styling Technologies



3 CSS







#### DevOps Technologies



GitHub



## **Database Management Services**







pgAdmin