

Philani Gumede

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PROFILE

My name is Philani Gumede, a dedicated and passionate Electronic Engineering student with a keen interest in both web application and embedded systems development. My journey in the field of engineering has been driven by an unwavering enthusiasm for creating innovative solutions through code and technology.

KEY PROJECTS

Company: Personal Project

Roles and Duties: Web Developer (Developing a photo sharing application with users, authentication, and database)

Duration: Current

Technologies used: Golang, Docker, PostgreSQL, HTML, CSS tailwind.

Company: Neotechnologies

Role and Duties: Backend Developer (Developed a 3-tier web backend architecture and API for an online store)

Duration: +1year

Technologies used: Golang, Docker, Kubernetes, PostgreSQL.

Company: ProjectX

Role and Duties: Go Web Developer Instructor (Developed and presented learning material for web development using Golang)

Duration: 1year

Technologies used: Golang, MySQL, HTML, CSS, JavaScript.

WORK EXPERIENCE

Neotechnologies | Fintech

Durban, South Africa

APR-21 -APR-23

Junior Security Analyst

- Set up backend VPS using AWS.
- Secured API gateway using AWS.
- Created a secure backend architecture using AWS.

ProjectX | EdTech

Durban, South Africa

AUG-21 – AUG-22

Instructor

- Developed learning material and assessments for 12 levels.
- Lead and guided a team of students throughout the course.
- Develop learning material and conducted IoT classes.
- Developed learning material for web development using Golang.

Hamptons High School | Education

Durban, South Africa

MAR-22 – MAY 22

Robotics Instructor

- Developed learning material using Arduino.
- Taught grade 8 to grade 11 learners robotics
- Built & developed Arduino prototypes.

EDUCATION

2012 - 2016	Tisand Technical High School Matric	Richards Bay, South Africa
AUG-22 – Oct-22	Amazon Web Services re/Start (Praesignis) AWS Certified Cloud Practitioner Relevant courses: Cloud Computing Fundamentals. Introduction to Linux. Introduction to Networking and Security. Introduction to Python. Introduction to Databases.	Johannesburg, South Africa
2017 – Present	University of KwaZulu Natal BSc (Hons) Electronic Engineering Relevant courses: C, Java, and C++	Durban, South Africa

COURSES AND CERTIFICATIONS

2023	Esri South Africa GIS Fundamentals Foundation 2201
2022	Amazon Web Services re/Start Amazon Web Services Cloud Practitioner
2022	Ardan Labs Ultimate Go Ultimate Go 2.0 Ultimate Go 3.0 Writing Secure Go Code Advanced Engineering (Blockchain and Crypto)
2021	Udemy Learn How to Code: Google’s Go (Golang) Programming Language Web Development with Google’s Go (Golang) Programming Language Web Authentication with Golang – Google’s Go Language
2019	Engineers Without Borders (UKZN) and AURECON Human Centred Design Workshop

LANGUAGES

Language	Speak	Read	Write
English	Excellent	Excellent	Excellent
Zulu	Excellent	Excellent	Excellent

REFERENCES

Name : Thabani Magubane
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