

# George Mtombeni

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## EDUCATION

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**Stellenbosch University**, Western Cape, South Africa  
*BEng Electrical & Electronic Engineering (informatics Major)*

**Graduation:** December 2025

## EXPERIENCE

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**Apprentice Consultant | Expert Global Consulting Agency(EGCA)** December 2024 – January 2025

- Developed Machine Learning Models for **Predictive Maintenance**, resulting in reduced downtime of industrial machinery.
- Built full-stack digital twin solutions for large-scale Mining operations by integrating cloud services such as **AWS** and **Azure** with **XMPro**.
- Crafted intuitive PowerPoint Presentations, effectively communicating **complex** ideas using **simple language**.

**Engineering Intern | NewSpace Systems**

November 2024 – December 2024

- Developed software deployment pipeline for C#, .NET Framework applications using CI/CD tools.
- Integrated Amazon Web Services(AWS) S3 buckets with software deployment pipeline.
- Collaborated with professional engineers, developing software for **internationally** supplied spacecraft components.

**Front-end Developer intern | Vincii**, Cape Town, South Africa

January 2022 – February 2022

- Integrated Vincii API with front-end components, resulting in an optimized front-end and intuitive user experience.
- Collaborated with back-end, front-end, and full-stack engineers to build and enhance the React.js front-end.

**WordPress Website Developer | J&G Digital**

August 2023 - Present

- Developed 6+ professional websites using *WordPress*, each with positive client feedback.
- Maintain constant professional communication with clients, ensuring smooth website iteration cycle and optimal client-satisfaction.

**Academic Tutor | Stellenbosch University**

July 2021 - Present

- Tutored modules from 1<sup>st</sup> year to 3<sup>rd</sup> year of Electrical & Electronics Engineering.
- Subjects tutored cover topics ranging from 3D modelling, C Programming, Embedded Arduino Programming, Java Game Dev and Python Game Dev.

**CERTIFICATIONS**, all certificates available on [my LinkedIn Profile](#)

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**AWS APAC Solutions Architecture**, Advanced **Software Engineering** Virtual Program, **SkyScanner** Front-End Software Engineering.

## SKILLS

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**Programming Languages:** Python, Java, HTML, CSS, JavaScript, Tailwind CSS, C, Arduino, C#

**Tools:** React.js, React Native, Next.js, WordPress, StreamLit, SQLite, mySQL, **.NET Framework**

## **CAMPUS INVOLVEMENT**

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**Lead Software Engineer & Technical Officer | SU AI Society** November 2023 - Present

- Developed 6+ open-source projects with early access for SU AI Society members.
- Organize guest speakers for conferences, organize introductory Python Workshops, and collaborate with industry professionals in spreading awareness about AI on campus.

**Learning Assistant | Computer Programming 143** June 2024 - Present

- Work alongside PhD lecturers in aiding junior engineering students understand the basics of programming.
- Answer questions students have during practical and tutorial sessions and provide **invigilation** assistance during formal assessments.