

Blessed Mukundi Mangena

B.Sc Electrical and Computer Engineering

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Profile

Motivated and adaptable engineering student with a strong foundation in software development, systems integration, and problem-solving. Skilled in multiple programming languages, cloud-based deployment, and financial systems integration, with hands-on experience in tools such as MxExchange and MX.3. Adept at applying analytical thinking to design and implement innovative solutions that address real-world challenges across technology, finance, and engineering domains. Known for combining technical expertise with leadership skills developed through entrepreneurship, team coaching, and operations management. Passionate about contributing to purpose-driven projects, whether in software engineering, fintech, embedded systems, or data-driven problem solving.

Education

BSc Electrical and Computer Engineering

University of Cape Town

Expected completion: November 2025

- Member of the IEEE Student Branch.
- Relevant coursework: High Performance Embedded Systems, Mobile & Wireless Networks, Digital Signal Processing.
- Participated in multiple design courses and competitions to refine engineering design capabilities.
- Skilled in designing efficient code, printed circuit boards, and CAD-based solutions.

Experience

Murex Integration Analyst Intern

Kion Consulting, Johannesburg (Remote, SA)

June 2024 – July 2025

- Learnt how to use the Mx.3 platform specifically MxExchange
- Developed and automated bulk trade booking workflows on the MX.3 platform.
- Designed and integrated workflows to streamline trade booking and automate the full trade lifecycle.
- Deployed the MX.3 platform on AWS EC2 servers for Murex integration.
- Created full-stack applications leveraging LLMs to solve real-life problems.
- Gained expertise in financial market systems, automation, and trade lifecycle management.

Operations Manager(Self-Employed)

Whiz Tutors, Cape Town, SA

January 2023 – Present

- Led client acquisition initiatives and implemented strategies to attract and retain clients.
- Acted as primary liaison between clients and tutors, resolving inquiries and concerns.
- Established partnerships with schools to promote tutoring services.

Hostel Master

SACS, Cape Town, SA

January 2023 – Present

- Managed daily hostel operations, ensuring a safe and supportive environment.
- Supported students in academic and extracurricular development.
- Coached U15 rugby, specializing in forwards and strength & conditioning.

Technical Skills

- **Languages:** Java, Python, C, MATLAB, JavaScript, HTML , CSS
- **Frameworks:** FastAPI, Tailwind, Vue.js
- **Tools:** MX.3 Integration Git, SQL, OpenCL, KiCad, SolidWorks
- **Web:** HTML/CSS, JavaScript
- **Concepts:** AI Prompt Engineering, RDBMS, Embedded Systems