SICELO LAWRENCE MABASA
JUNIOR SOFTWARE ENGINEER

Contact Details
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ABOUT ME

Junior Software Engineer with strong skills in Python development, API development & integration, data scraping, and web development using Django. Solid understanding of RESTful APIs, HTML, and CSS. Experienced in collaborating with companies and clients, bringing forward leadership, problem-solving, and team management skills gained as a Quantity Surveyor and Solar Technician. Confident in taking charge, leading projects, and delivering technical solutions effectively.

SKILLS SUMMARY

Technical Skills :REST API, Django developer, HTML, CSS, JavaScript, Project Management, OOP, Python Programming, Agile development, Software Documentation, Software development, Troubleshooting, System maintenance, Cost estimator, Solar PV Designer and installation planner

Soft Skills : Communication skills, Organisation skills, teamwork, leadership skills, problem solving skills and critical thinking

WORK EXPERIENCE

BrainTrust   **Mar 2025 - Present**
(Freelance • AI Trainer)

- Assist different types of AI to improve human responses and interaction
- Test and challenge AI on different scenarios.
- Problem solving skills and critical thinking skills used to challenge AI and teach different AI to solve unique issues
- Provide AI and improve it based on clients request on how they want the AI to function

Molamu Marjories JV   **Sep 2022 - Mar 2025**
(Contact • Quantity Surveyor and Solar Technician)

- Managed end-to-end solar projects for residential clients,
- Transitioning systems from backup to fully off-grid.
- Applied project management and problem-solving skills to scope, design, and execute solutions.
- Communication between clients to understand scope of work and delivery of scope with client involvement in projects
- Business Analysis with projects with ability to break down all business financial implications and benefits
- Led teams, controlled budgets, and ensured timely, sustainable energy delivery.
- Conducted construction cost evaluations, variation orders, project claims, cost estimation, prepared and analyzed Bills of Quantities, and provided cost advisory services.
- Focused on financial documentation and reporting, utilizing strong analytical problem solving skills to identify and resolve cost related discrepancies, ensure budget accuracy, and support strategic project decision making.

Obselite (Pty) Ltd   **Feb 2020 - Present**
(Owner • Entrepreneur

- Manage full team of engineers. Development of new projects from robotics, software development, product testing. Problem solving and inventing new ideas and economic solutions
- Invention, business planner and strategist software development project management
- Web design projects, communication between clients and meet project requirements with web development projects

EDUCATION

Software Engineering   **Jan 2025 - Apr 2025**

Stellenbosch University Partnered with HyperionDev
- Python Coding, Software Engineering practices, Software Process, Quality Management, Version Control, Software Documentation, and Agile Development
- OOP classes, OOP inheritance, SQL, Databases and Python

Solar Technician   **Apr 2022 - May 2022**

Nepoworx
- Electrical Engineering
- Solar Design and Management
- Electrical Health and Safety
- Solar installations

Entrepreneurship   **Feb 2020 - Nov 2020**

University of Pretoria
- Business management
- Basic business analysis , Entrepreneurial skills
- Business Innovation , and Basic Marketing principles

Quantity Surveying   **Feb 2019 - Present**

University of Pretoria
- Construction Science, Construction technology and Construction services
- Cost estimation, Bill of Quantity, Measurements and evaluation
- Final account preparation, tender documentation and project cost control
- Financial accounting , variation orders and claims management

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PROJECTS

Software engineering
- Health & Fitness Tracking App. Developed a full-stack health and fitness tracking application as part of a software engineering course. The app monitors user workouts, tracks health metrics, and evaluates progress toward fitness goals. Utilized Python for backend logic, implemented database management using SQL, and applied object-oriented programming principles. This project emphasized problem-solving, data handling, and user-centric design.
  <u>Project Link</u>

- Library Management System. Built a scalable library database system suitable for use in a public library environment. Designed and implemented functionality for managing books, users, and borrowing history. Focused on relational database design with SQL, efficient data retrieval, and CRUD operations. Applied best practices in modular coding and database normalization.
  <u>Project Link</u>

These projects provided a strong foundation in Python programming, software development life cycles, and real world problem solving. They were instrumental in developing my technical skills and forming the basis of my journey as a software engineer.

Quantity Surveying
- Praise railway project

Role as Quantity Surveyor in Walling Project:

Responsible for comprehensive cost estimation and budget planning for the successful implementation of a walling project. Actively engaged in value engineering and problem-solving to ensure cost-effective solutions aligned with project goals. Managed and processed variation orders and related claims, including the preparation of supporting documentation and project specifications. Oversaw the valuation of work in progress for Interim Payment Certificate (IPC) claims, while documenting financial progress and compiling detailed cost reports. Ensured all financial and contractual records were accurately maintained and aligned with project standards.

- Solar PV projects

Role as Quantity Surveyor and Solar Technician in Solar PV Projects:

Led the design and implementation of solar PV systems for both residential and large-scale projects, combining technical knowledge of solar installations with strong cost management expertise. As a Quantity Surveyor, I was responsible for analyzing and managing project costs, preparing financial forecasts, and ensuring accurate budgeting across all phases of the project. I also oversaw variation orders, tracked expenditures, and compiled detailed financial reports to support informed decision-making.

In my role as a Solar Technician, I ensured technical compliance with system design, installation standards, and project specifications. Acted as Project Manager to coordinate between teams, monitor progress, and guarantee timely delivery aligned with client expectations. My dual skill set allowed me to manage both the technical execution and financial efficiency of the project, ensuring it was delivered professionally, on time, and within budget.