

KAGISO EMILY MAKGABA

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PROFESSIONAL SUMMARY

Motivated software engineer with extensive, hands-on experience in C, Python, and JavaScript. Recently completed the ALX Software Engineering Program, gaining experience in data structures, algorithms, DevOps, web development, and backend systems. Skilled in problem solving and collaboration with a commitment to continuous learning and career growth in Software Engineering. Proficient in building scalable applications and implementing efficient code solutions. Passionate about leveraging technology to solve real-world challenges and contribute to impactful projects.

PROFESSIONAL SKILLS

- Programming Languages: C, Python, JavaScript, SQL
- Web Development: HTML, CSS, Flask, React, Nginx, APIs
- DevOps & System Engineering: Linux, Bash scripting, Git, SSH, SSL, Configuration Management (Puppet)
- Data Management: SQL, MySQL, Advanced MySQL, NoSQL (Redis)
- Software Development: OOP, Data Structures, Unit and Integration Testing, Error Handling, Memory Management, File I/O
- Soft Skills: Technical writing, time management, public speaking, collaboration, problem solving.

SOFT SKILLS AND PROFESSIONAL DEVELOPMENT

- Technical Writing and Documentation: Created detailed documentation for projects, explaining code functions and logic to enhance maintainability.
- Public Speaking and Stand-ups: Regularly participated in group discussions, presentations, and stand-up meetings to improve public speaking skills.
- Collaboration and Time Management: Developed strong teamwork skills through collaborative projects and adherence to project deadlines.

EDUCATION

ALX Software Engineering Program

Completion Date: November 2024

- Completed a comprehensive three-trimester program covering programming, systems engineering, web development, and backend specialization.
- Developed in-demand technical and professional skills including collaboration, public speaking, time management, and technical writing

CERTIFICATES

- React Development
- Responsive Web Development
- Web Development
- Introduction to Coding

PROJECTS

AirBnB Clone

Tech stack: HTML, CSS, JavaScript, Python, SQL Alchemy, Flas

Built a web application from scratch, including both front-end and back-end components, implementing user authentication, data storage, and user interaction functionalities.

Custom Printf Function

Tech stack: C

Designed and implemented a custom version of printf function in C, handling various data types and demonstrating memory management skills.

Shell Program

Tach stack: C, Linux

Created a Unix-based shell as part of the curriculum, implementing command parsing, process control, and custom-built memory allocation techniques.

Real Estate Website

Tech stack: MongoDB, Express.js, React.js, Node.js, Redux.js, Tailwind

Developed a full-stack real estate website, incorporating CRUD functionalities, database persistence, and user-friendly front-end interaction.

REFERENCES

Available upon request