Mondli Zulu

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SUMMARY

As a software engineer intern at alx_africa, I am mastering a comprehensive set of skills that enable me to design and develop effective web solutions. I am proficient in version control using Git and GitHub, front-end development using HTML and CSS, and database management using MySQL. I have contributed to projects, delivering visually appealing and responsive web interfaces and optimizing relational databases. I am also a data science student at the University of KwaZulu-Natal, where I am pursuing my passion for solving problems using algorithms and statistics. I have completed courses in computer science and statistics, gaining expertise in object-oriented programming, data structures, algorithms, and theory of computation. I strongly believe that data science can empower Africa and fight the poverty that it suffers from, and I aspire to use my skills to make a positive impact.

EXPERIENCE

Introduction to Programming SI Leader

University of KwaZulu-Natal   August 2023 - Present

I am a Supplementary instructor for the module Computer science 102 which is about Computer Programming using Java Programming language. I facilitate weekly study sessions for students studying this module in order to help them understand the concepts that are deemed difficult to be easy. SI Leaders are required to have good communication, creative and problem solving skills

Software Engineer Intern

alx_africa   July 2023 - Present

During my internship as a Software Engineer, I immersed myself in a dynamic learning environment, focusing on mastering a comprehensive set of skills. I became proficient in version control using Git and GitHub, enabling me to collaborate seamlessly with team members and contribute to projects efficiently. Additionally, I honed my front-end development skills, working extensively with HTML and CSS to craft visually appealing and responsive web interfaces. This experience allowed me to grasp fundamental web design principles and implement best practices. Moreover, I delved into database management, specifically MySQL, where I gained expertise in designing and optimizing relational databases. My proficiency in SQL queries expanded, enabling me to retrieve, modify, and manage data effectively. Furthermore, I ventured into back-end web development, using the Flask framework in Python to create web applications and RESTful APIs. Through this internship, I broadened my skill set, laying a solid foundation for my career in software engineering. As my internship progressed, I embraced JavaScript, adding dynamic functionality and interactivity to web applications. I worked with popular libraries and frameworks, enhancing the user experience. Additionally, I explored the realm of Application Programming Interfaces (APIs), learning to design, build, and integrate APIs for seamless communication between software components. Python remained a central part of my toolkit, powering various tasks, from web development to data analysis and automation. Throughout this journey, I actively contributed to projects, collaborated with cross-functional teams, and tackled real-world software engineering challenges. This experience not only strengthened my problem-solving skills but also

equipped me with a robust understanding of modern software development practices, setting the stage for my future in the field.

Computer Science Tutor

University of KwaZulu-Natal   August 2022 - Present

Comp 200 - GUI Comp 100- Introduction to programming Comp 315- Advanced programming Comp 102- Java Computer Programming Comp 314-Theory of Computation Comp 201-Data Structures Comp 204-Computer Architecture

EDUCATION

University of KwaZulu-Natal   2020 - 2022

Data Science , Computer science and Statistics

SKILLS

- Version Control
- Flask
- MySQL
- Cascading Style Sheets (CSS)
- HTML
- TypeScript
- Test Automation Tools
- Selenium
- Web Applications
- API Development
- Bug Tracking
- Full-Stack Development
- System Development
- Programming
- Git
- Software Quality
- Quality Assurance
- JavaScript
- SQL
- Back-End Web Development
- Performance Testing

- WebDriver

- Test Cases

- Selenium WebDriver

- Software Quality Assurance

- Functional Testing

- Software Testing

- Software Development Life Cycle (SDLC)

- QA Automation

- Test Planning

- Penetration Testing

- Security Testing

- Ethical testing

- Software Development

- Leadership

- Analytical Skills

- Python (Programming Language)

- Object-Oriented Programming (OOP)

- Agile Methodologies

- Manual Testing

- Test Automation

- Data Analysis

- Microsoft Excel

- Problem solving skills

- Presentations

- Communication

- Java

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