Collins Gichohi

Software Engineer

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Software Engineering graduate with hands-on experience in full-stack development, cloud technologies, and Agile methodologies. Proficient in designing and optimizing APIs, developing scalable web applications, and deploying infrastructure using AWS and Docker. Eager to leverage my technical expertise and problem-solving skills to drive innovative solutions in a collaborative environment.

TECHNICAL SKILLS

Languages: JavaScript, HTML, CSS, Python, Java, C, C#
Frameworks/Technologies: Node.js, Express, React, Git/Github, Spring Boot, Postman
Tools & Platforms: AWS, Linux, Docker, PostgreSQL, MongoDB, Jira, Selenium

EXPERIENCE

Omnidya   **Remote**
Cloud Engineering Intern   March 2024 - November 2024

- Managed and deployed infrastructure components using AWS and Docker, ensuring the smooth operation of CI/CD pipelines and automation labs.
- Developed RESTful APIs that enabled seamless data exchange between the Insurance Rater and external insurance databases, improving data accuracy by 30% and reducing manual data entry errors.
- Optimized AWS Lambda functions to decrease response times by 25%, enhancing the real-time processing capabilities of the Insurance Rater, leading to quicker premium calculations.
- Collaborated in an Agile environment to design and develop an Insurance Rater that calculates premiums for drivers.
- Designed and implemented Python scripts to efficiently transfer data from Excel sheets to MongoDB, streamlining data integration and storage processes.

EDUCATION

San Francisco State University   **San Francisco, CA**
Bachelor of Science in Computer Science   Graduated May 2024

- Graduated Magna Cum Laude
- Member of Association of Computing Machinery (ACM) at SF State

PROJECTS

StudentConnect

Technologies Used: HTML, CSS, React.js, Node.js, MongoDB, Nginx, AWS, Jira

- Led a team of six in developing a Learning Management System (LMS) designed to simplify communication between teachers and students using Agile methodologies.
- Implemented advanced database indexing and query optimization techniques, reducing data retrieval times by 40%.
- Utilized server-side functionality using Express.js, performing CRUD operations to manage database and support application features.
- Integrated OAuth 2.0 and JWT for secure user authentication, ensuring data protection and privacy for users.

Freelance Web Development: CYO Rugs [www.cyorugs.com]
Technologies Used: HTML, CSS, React.js, Node.js, PostgreSQL, Axios, AWW

- Created rug selling website using Square API for secure payment processing handling Apple Pay and Google Pay
- Implemented a comprehensive product management system with real-time data fetching for rug listings and updates using Axios, all managed using CRUD operations
- Designed a fully responsive, mobile-first interface using React and Material-UI, ensuring optimal performance and UX across devices
- Engineered a scalable backend with Node.js and Express, managing database queries and product availability in real-time using webhooks, while ensuring data consistency.
- Improved load times by optimizing front-end assets, reducing server response times, and implementing lazy loading for images, resulting in a 40% faster page load on average.