

# Collins Gichohi

## Software Engineer

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*Passionate Software Engineering graduate from San Francisco State University, with a solid grasp of computer science fundamentals and an ability to develop innovative software solutions. Adept in a range of programming languages and frameworks, I am eager to apply my technical acumen and collaborative skills in a software engineering role that promotes growth and learning.*

### TECHNICAL SKILLS

**Languages:** Java, C, C#, HTML, CSS, JavaScript, Python

**Frameworks/Technologies:** Node.js, Express, React, Git/Github, Spring Boot

**Tools & Platforms:** PostgreSQL, MongoDB, AWS, Linux, Docker, Jira, Selenium

### EDUCATION

#### SAN FRANCISCO STATE UNIVERSITY

Bachelors of Science in Computer Science

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

San Francisco, CA

May 2024

#### FreeCodeCamp

Foundational C# with Microsoft

Online

December 2023

### EXPERIENCE

#### Omnidya

Full-Stack Software Engineering Intern

Remote

March - August 2024

- Collaborated in an Agile environment to design and develop an Insurance Rater that calculates premiums for drivers.
- 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.
- Designed detailed test cases based on user stories and requirements, executed out with Selenium.
- Managed and deployed infrastructure components using AWS and Docker, ensuring the smooth operation of CI/CD pipelines and automation labs.

### PROJECTS

#### StudentConnect

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

January 2024

- 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..

#### CYO Rugs [<https://cyorugs.vercel.app/>]

August 2024 - Present

Technologies Used: HTML, CSS, React.js, Node.js, MongoDB, Axios

- Created rug selling website using Square API for secure payment processing and 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, 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.