Jesse Chumo

Software Engineer

👤 Profile

I'm a software engineer whose primary goal is to apply technical expertise throughout the software life cycle to ensure the production and delivery of world-class products and services that meet client specifications.

Equipped with strong personal knowledge, communication skills, technical skills, and experience in software engineering, I am passionate about solving problems, and understanding how things work and how I could improve them.

🎓 Education

MS Computer Science, University of Texas at Arlington, Texas

August 2024 — December 2026

GNN Research at UTA CSS lab

BS Information Technology, Kabarak University, Kenya

May 2018 — December 2021

GDG (Google Developer Groups) member

💼 Employment History

Full Stack Developer at Fasi Health, Nairobi

August 2023 — August 2024

- Developed a secure authentication system using AWS Cognito, ensuring seamless and secure authentication, reducing login-related support tickets by 30%
- Created a Continuous Integration/Continuous Deployment (CI/CD) from GitHub Actions to AWS Elastic Beanstalk that ensured seamless, automated deployment, reducing deployment time by 50% and minimizing human errors during production releases.
- Implemented a Responsive Design for Mobile (EXPO) and web app (NextJs) that allowed the applications to be used seamlessly on various devices, from admins to end users.
- Created a GraphQL API that allowed for seamless integration with the backend.
- Developed and maintained a Turborepo monorepo to enable code reusability between mobile and web applications, cutting development time for new features by 20% and reducing duplicate code across projects.

Details

Arlington
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Links

linkedIn
GitHub
Portfolio

Skills

Typescript/ JavaScript

NodeJS/ NestJS

AWS

Linux

Docker

React/React Native

Python

C

GraphQL

MongoDB

MySQL

Testing

Git

Front End Web Developer at Fameve, Nairobi
November 2022 — July 2023

- Implemented automated testing that achieved 91% code coverage, significantly reducing production issues by 60% and improving system reliability, resulting in faster bug detection and resolution during development cycles.
- Developed reusable components using Angular for the MShoppa E-Commerce Platform, accelerating feature development by 40% and ensuring consistent user interface elements across the application.
- Created custom directives to manipulate DOM elements and extend component functionality, improving application responsiveness and reducing frontend code redundancy by 25%.
- Optimized user experience on the MShoppa platform by enhancing page load times through efficient DOM manipulation, leading to a 20% increase in customer retention.
- Collaborated with UX designers to ensure seamless integration of reusable components, resulting in a 15% improvement in user satisfaction scores.
- Integrated robust error-handling mechanisms within custom directives, reducing runtime errors by 30% and enhancing overall application stability.
- Contributed to the scalability of the MShoppa platform by building modular components, enabling the addition of new features with minimal code refactoring.

Software Development Intern at JamboPay, Nairobi
May 2022 — November 2022

- Supported the development of a new messaging platform using NestJS, enabling real-time customer notifications through emails and SMS, which improved customer engagement rates by 30%.
- Wrote optimized SQL queries to generate detailed reports for the admin dashboard, providing management with actionable insights into sales trends and helping identify opportunities for revenue growth.
- Monitored and tested systems to proactively identify and resolve downtime issues, achieving a 99.9% system uptime and ensuring a seamless user experience.
- Improved notification delivery reliability by implementing retry mechanisms and error logging in the messaging platform, reducing missed notifications by 25%.
- Streamlined report generation processes, reducing data retrieval time by 40% and enhancing decision-making speed for the management team.
- Collaborated with cross-functional teams to integrate the messaging platform with existing CRM systems, ensuring consistent communication and improved operational efficiency.