

# Jesse Chumo

Software Engineer

## 👤 Profile

Software Engineer skilled in full-stack development, CI/CD, and secure authentication. Passionate about building high-quality software in fast-paced startup environments. Seeking summer internship. CPT-eligible; no visa sponsorship required.

## Details

Arlington, Texas  
United States  
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## 🎓 Education

### MS Computer Science, University of Texas at Arlington, Texas

August 2024 — December 2026

- GNN Research at UTA CSS lab
- 3.5/4

### BSc Information Technology, Kabarak University, Kenya

May 2018 — December 2021

- GDG (Google Developer Groups) member

## Links

[LinkedIn](#)  
[GitHub](#)  
[Portfolio](#)

## Skills

Typescript/ JavaScript  
NodeJS/ NestJS  
AWS  
Linux  
Python  
c  
Docker  
React / React Native  
GraphQL  
MongoDB  
MySQL  
Testing  
Git

## 💼 Employment History

### Graduate Teaching Assistant at University of Texas at Arlington, Arlington

January 2025

- Conduct office hours and tutoring sessions for the Algorithms course, directly contributing to a 15% improvement in average student performance.
- Grade and provide detailed feedback on programming assignments and code labs, reducing recurring errors and improving code quality by 20%.
- Facilitate debugging sessions and code reviews during one-on-one and group meetings, resulting in an enhanced student satisfaction rating of 90% based on student feedback.

### 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.

### 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.
- 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.

### 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.

## ★ Projects

### air-nbo

A web app showing the air quality of different points in Nairobi using data from IOT devices.

[link](#)

### foodmine

A food ordering web app using angular.

[link](#)