# Jesse Chumo

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Software Engineer skilled in full-stack development, CI/CD, secure authentication machine learning. Passionate about building high-quality software in fast-paced startup environments.

## Education

**University of Texas - Arlington** **August 2024 - December 2026**

*Master's, Computer Science* *GPA: 3.5*

- Machine Learning Reasearch at the Cyberphysical Systems Security Lab.

**Kabarak University** **May 2018 - December 2021**

*Bachelor's, Information Science* *GPA: 3.4*

## Skills

Python, C/C++, JavaScript, TypeScript, HTML/CSS, Node.js, Nest.js, React.js, React Native, GraphQL, Git, Docker, AWS, MongoDB, MySQL, Postgres, CI/CD, Software Testing, Automated Testing, Linux/Unix, security, Machine Learning, GNN, Secure Authentication, Debugging, Environment Setup, Real-time Notifications, Report Generation, System Monitoring, SEO

## Professional Experience

**University of Texas - Arlington** **Arlington, TX, USA**

*Systems Administrator* *August 2025 - Present*

- Enable seamless access to information for 1,000+ users by developing and maintaining the School of Engineering intranet using HTML5,CSS and PHP, and implementing MVC patterns for scalable architecture.
- Reduce student blockers by 30% and improved lab completion rates by facilitating security lab practicals.
- Achieve 99.9% uptime for critical university systems through continuous monitoring, early anomaly detection, and swift resolution of infrastructure issues.

**University of Texas - Arlington** **Arlington, TX, USA**

*Graduate Teaching Assistant* *January 2025 - August 2025*

- Achieved a 15% improvement in average student performance for the Algorithms course by tutoring and office hours, emphasizing algorithms concepts.
- Reduced recurring coding errors and improved code quality by 20% by providing detailed feedback on programming assignments using C programming language, and reinforcing best practices.
- Enhanced student satisfaction rating to 90% by facilitating collaborative debugging and code reviews.

**Fasi Health** **Remote**

*Full Stack Developer* *August 2023 - August 2024*

- Decreased deployment time by 50% and minimized production errors by implementing a CI/CD pipeline from GitHub Actions to AWS Elastic Beanstalk with automated scripts, supporting Agile releases.
- Assisted in implementing AWS Cognito authentication, delivering secure user management and accelerating development through streamlined OAuth integration.
- Enabled efficient backend integration by developing a GraphQL API , facilitating data exchange in JSON format for seamless communication with React Components.
- Developed Prisma database migrations with rollback capabilities, streamlining schema management and reducing deployment risks.

**Fameve** **Remote**

*Front End Web Developer* *November 2022 - July 2023*

- Achieved 91% code coverage and reduced production issues by 60% on an e-commerce platform by implementing automated testing strategies within an Agile team, utilizing Angular, JavaScript, HTML5, AJAX, and T-SQL for robust validation.
- Improved application responsiveness and reduced code redundancy by 25% by developing custom Angular directives and jQuery components using MVC patterns and XML-based configuration.
- Developed reusable Angular components with TypeScript, implementing modular architecture and improving code maintainability across the application.

**jambopay** **Nairobi Area, Kenya**

*Software Development Intern* *May 2022 - November 2022*

- Improved customer engagement rates by 30% by engineering backend services with JavaScript and NestJS, leveraging Web API  for asynchronous notifications, and collaborating with front-end developers using Angular, HTML5, and jQuery in an Agile environment.
- Provided actionable insights for management by designing and executing optimized SQL queries to generate detailed sales reports for the admin dashboard.
- Achieved 99.9% system uptime by proactively identifying and resolving downtime issues  and collaborating with Agile teams to ensure robust platform performance.