# JESSE CHUMO

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## PROFESSIONAL SUMMARY

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

**Skills:** HTML/CSS, Git, SEO, Python, git, JavaScript, TypeScript, Node.js, Nest.js, Docker, AWS, GraphQL, React.js, React Native, MongoDB, SQL, Postgres, Software Testing, Linux/Unix, C/C++, security, Machine Learning, GNN, Testing, CI/CD, Secure Authentication, Debugging, Code Reviews, Automated Testing, Version Control, Environment Setup, User Experience Optimization, Real-time Notifications, Report Generation, System Monitoring, MySQL, Data Analysis

## PROFESSIONAL EXPERIENCE

**University of Texas - Arlington** **Arlington, TX, USA**
*Systems Administrator* *August 2025 - Present*
- Improved deployment efficiency and reliability by 20% by managing and optimizing CI/CD workflows using Python, Docker, and Kubernetes on Linux servers, supporting SaaS and B2B technology projects in academic and research environments.
- Enabled seamless access to critical resources for 1,000+ users by developing and maintaining the School of Engineering intranet with PHP and Java, leveraging cloud computing platforms like Azure and GCP for scalability.
- Reduced student blockers by 30% and increased lab completion rates by facilitating security lab practicals using TensorFlow, PyTorch, and Perl, supporting deep learning and machine learning training in an Agile, hands-on environment.
- Streamlined product design and deployment processes by collaborating with cross-functional teams to implement scalable SaaS deployment pipelines using Linux, Docker, and Kubernetes in alignment with Agile methodologies.

**University of Texas - Arlington** **Arlington, TX, USA**
*Graduate Teaching Assistant* *January 2025 - August 2025*
- Improved average student performance by 15% by delivering office hours and tutoring sessions for the algorithms class.
- Increased code quality by 20% by providing feedback and facilitating code reviews for the assignment labs.
- Achieved 90% student satisfaction rating by guiding students in debuggingand improving their knowledge of programming and algorithm fundamentals.

**Fasi Health** **Remote**
*Full Stack Developer* *August 2023 - August 2024*
- Reduced login-related support tickets by 30% by engineering a secure authentication system using AWS Cognito and Python on a Linux-based B2B technology SaaS platform, leveraging cloud computing best practices.
- Decreased deployment time by 50% and minimized production errors by implementing a CI/CD pipeline with GitHub Actions, Docker, and AWS Elastic Beanstalk in an agile, cloud-based product design environment.
- Enabled seamless backend integration and improved data accessibility by developing a GraphQL API supporting Python and Java microservices, facilitating efficient data exchange for data science and machine learning workflows on a scalable SaaS platform.

- Expanded platform compatibility and readiness for advanced technologies by building services compatible with Kubernetes, GCP, and Azure, and evaluating TensorFlow and PyTorch for future deep learning and machine learning integrations.
- Supported collaborative and scalable SaaS product development by collaborating on product design and deployment, utilizing Perl and PHP scripting for automation and troubleshooting in Linux environments as part of an agile B2B technology team.

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

- Reduced production issues by 60% and improved system reliability on a SaaS B2B technology platform by implementing automated testing with Python in a Linux environment, achieving 91% code coverage and accelerating bug detection.
- Improved application responsiveness and reduced frontend code redundancy by 25% on a cloud computing SaaS e-commerce platform by designing custom directives and optimizing DOM manipulation, leveraging Docker and Kubernetes for streamlined deployment.
- Increased customer retention by 20% by optimizing page load times and frontend performance for a B2B SaaS platform, collaborating with product design teams and utilizing GCP and Azure for scalable cloud computing.
- Contributed to adoption of modern AI and data science practices by supporting integration of TensorFlow and PyTorch for deep learning and machine learning experiments within an Agile SaaS development environment.
- Streamlined cross-functional collaboration and accelerated product design iterations by working with global teams using PHP, Java, and Perl to extend SaaS web application functionality and improve integration between frontend and backend systems.

**jambopay** **Nairobi Area, Kenya**
*Software Development Intern* *May 2022 - November 2022*

- Improved customer engagement rates by 30% by engineering real-time notification features in a SaaS messaging platform for a B2B technology provider, integrating Python scripts for data processing on Linux environments and leveraging Agile methodologies.
- Reduced data retrieval time by 40% by optimizing SQL queries and automating workflows with Docker containers and GCP resources for admin dashboard report generation in a cloud computing environment, enabling faster management decisions.
- Achieved 99.9% system uptime in a SaaS environment by proactively monitoring and resolving downtime issues, utilizing Kubernetes for orchestration and implementing alerting scripts in Python and Perl on Linux servers.
- Provided actionable sales insights to management by developing detailed reporting features and collaborating on product design for the admin dashboard, applying Agile principles and data science techniques for enhanced analytics.
- Enhanced technical exposure and adaptability by exploring TensorFlow and PyTorch for machine learning model prototyping and gaining exposure to Azure and PHP while contributing to SaaS product enhancements.