

# BRANDON OGOLA

Junior Software Developer — Full Stack Developer

Email: edogola4@gmail.com  
Phone: +254-717-248673  
Location: Nairobi, Kenya  
LinkedIn: linkedin.com/in/brandon-ogola-b77063232  
GitHub: github.com/edogola4

## PROFESSIONAL SUMMARY

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Computer Science graduate with comprehensive software engineering training combining theoretical foundations with intensive practical experience across three rigorous programs (CS Degree, ALX, Moringa School). Full-stack developer specializing in JavaScript, Python, React, Node.js, and AI/ML integration with proven track record of delivering measurable results: developed AI chatbot achieving 95% accuracy, improved user engagement by 25%, and increased operational efficiency by 20%. Experienced in building scalable web applications, RESTful APIs, and intelligent systems. Seeking junior software developer role to leverage strong computer science fundamentals and hands-on development expertise.

## TECHNICAL SKILLS

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**Languages:** JavaScript (ES6+), Python, TypeScript, C, SQL, HTML5, CSS3  
**Frontend:** React.js (18), Angular, Redux Toolkit, Framer Motion, Responsive Design, Mobile-First  
**Backend:** Node.js, Express.js, Flask, RESTful APIs, Microservices, JWT Authentication  
**Databases:** MongoDB, PostgreSQL, MySQL, Redis  
**AI/ML:** TensorFlow, NLP, Machine Learning Models, Intent Recognition, Sentiment Analysis  
**DevOps:** Git/GitHub, Docker, AWS, Railway, CI/CD, GitHub Actions, Linux/Unix, Shell Scripting  
**Practices:** Agile, Test-Driven Development, Code Reviews, Version Control, Technical Documentation  
**Additional:** Socket.io, WebSockets, Postman, VS Code, LaTeX

## PROFESSIONAL EXPERIENCE

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**Operations Intern** **November 2024 — April 2025**  
*Alliance Bioversity CIAT — Nairobi, Kenya*

- Analyzed operational processes and created data-driven reports using Python and Excel, identifying efficiency improvements that reduced processing time by 20%
- Developed automated workflows and documentation systems that streamlined operations for a team of 12 members, improving collaboration and task tracking
- Collaborated with cross-functional teams to gather requirements and translated business needs into technical specifications and actionable solutions
- Built data processing scripts and tools using Python for automating repetitive tasks and generating insights from operational data

**Software Developer Intern** **June 2023 — September 2023**  
*REAL BIZ Digital — Nairobi, Kenya*

- Developed and maintained responsive web applications using React.js and Node.js, contributing to 3 client projects that improved user engagement by 25%
- Implemented RESTful APIs and integrated third-party services with senior developers, reducing data processing time by 30% through optimized backend logic

- Built AI-powered features and intelligent chatbot solutions, gaining hands-on experience integrating machine learning models into production web applications
- Participated in agile development processes, code reviews, and Git workflows, collaborating effectively in a team environment using modern development tools

## EDUCATION

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### **Bachelor of Science in Computer Science**

**2021 — 2025**

*University of Nairobi — Nairobi, Kenya*

- Comprehensive computer science curriculum covering Data Structures & Algorithms, Software Engineering, Database Management Systems, Computer Networks & Security, AI/ML, and Operating Systems
- Built multiple full-stack applications including web apps, database-driven systems, and AI projects using modern frameworks and algorithmic problem-solving
- Developed strong mathematical foundations in discrete mathematics, linear algebra, and statistical analysis essential for software engineering
- Gained theoretical depth in system design, algorithm optimization, and scalable architecture combined with practical coding experience

### **ALX Software Engineering Program**

**2023 — 2024**

*ALX Africa — Remote*

- Intensive software engineering program emphasizing computer science fundamentals, low-level programming (C), system design, and daily algorithmic problem-solving
- Built 15+ projects including command-line applications, web applications with RESTful APIs, and deployed full-stack solutions on Linux servers
- Developed expertise in data structures, algorithms, Python scripting, Linux/Unix administration, and collaborative development through peer programming
- Completed technical interview preparation focusing on LeetCode-style problems, system design, and professional communication skills

### **Software Development Bootcamp**

**June 2022 — December 2022**

*Moringa School — Nairobi, Kenya*

- Completed intensive 24-week full-stack development program specializing in modern JavaScript, React, Node.js, Python, and AI/ML integration
- Built 8+ production-ready applications with focus on intelligent systems and AI-powered features using TensorFlow and machine learning models
- Graduated in top 15% of cohort, demonstrating excellence in technical problem-solving and software development best practices

## KEY PROJECTS

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### **AI-Powered E-Commerce Chatbot** — Python, TensorFlow, Flask, React.js, NLP, RESTful APIs

- Developed intelligent customer service chatbot achieving 95% accuracy in intent recognition, reducing average response time by 40% for e-commerce platforms
- Implemented natural language processing with machine learning models for sentiment analysis and context-aware responses
- Architected scalable backend using Flask microservices and deployed with containerized Docker infrastructure

## **TinyTots - Full-Stack E-Commerce Platform** — React 18, Node.js, Express.js, MongoDB, Redux Toolkit

- Built modern e-commerce platform for eco-friendly children's clothing with complete CRUD operations, JWT authentication, and shopping cart functionality
- Implemented mobile-first responsive design with immersive animations using Framer Motion, providing seamless user experience across devices
- Architected RESTful API backend with Express.js and MongoDB, featuring scalable database design and global state management with Redux Toolkit

## **Real-Time Collaborative Code Editor** — Socket.io, Monaco Editor, Node.js, React, Redis, WebSockets

- Built collaborative coding platform supporting multiple programming languages with real-time code synchronization and syntax highlighting
- Implemented WebSocket connections using Socket.io for instant updates, user presence indicators, and conflict resolution across concurrent users
- Designed scalable architecture with Redis for session management and state synchronization, handling multiple simultaneous coding sessions

## **ADDITIONAL INFORMATION**

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**Languages:** English (Native), Swahili (Native)

**Open Source & Community:** Active contributor to AI/ML projects on GitHub — Regular participant in Nairobi tech meetups and workshops

**Professional Development:** Technical documentation proficiency (LaTeX) — Continuous learning in cloud-native development and system design