

# Ddumba Abdallah Kato

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## Professional Summary

Experienced Full Stack Developer with 2+ years of hands-on experience in MERN stack, real-time applications, and cloud stuff technologies. Spearheaded migration of legacy e-commerce platform to a serverless architecture using AWS Lambda and MongoDB, accommodating peak loads of 1,200 concurrent users with minimal downtime and reducing server costs by 35%.

## Education

### Islamic University In Uganda

Bachelor of Science In Computer Science

2015 - 2028

- **Achievements:** Improved code efficiency by 30% by refactoring key backend services during internship at Code Alpha
- **Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Machine Learning, Software Engineering

## Skills

- **Programming Languages:** JavaScript, TypeScript, C++, Python, JSON, SQL, Bash scripting
- **Frontend Technologies:** React.js, Next.js, HTML5, CSS3, Tailwind CSS, Material-UI, Fetch API
- **Backend Technologies:** Node.js, Express.js, REST API
- **Databases:** MongoDB, Mongoose, MySQL, MongoDB Atlas
- **Cloud & DevOps:** Git, GitHub, Git Bash, Docker, AWS CLI, Vercel, Netlify, AWS (EC2, S3, IAM)
- **Operating Systems:** Ubuntu, Kali Linux, Windows
- **Real-time Technologies:** Clerk Auth, Liveblocks, Stream API, Socket.IO, WebSockets API
- **Tools & Frameworks:** Visual Studio Code, PowerShell, MongoDB Compass, SQL Workspace, Postman, MS Office

## Experience

### Codecraft Infotech

January 2025 - February 2025

Full Stack Developer

- Implemented real-time collaborative features using Liveblocks, supporting 50+ concurrent users with minimum data conflicts
- Enhanced 100+ reusable UI components, increasing development velocity by 40% and maintaining 95% code reusability across projects while employing Git for version control

### Code Alpha

June 2024 - September 2024

Software Engineering Intern

- Resolved 98% of critical bugs in legacy web application, improving system stability and reducing customer complaints by 60%
- Enhanced UI/UX components using React.js and CSS3, increasing user engagement metrics by 40% and reducing bounce rate by 25% and demonstrating strong software development practices

### Bharat Intern

June 2024 - July 2024

Full Stack Development Intern

- Built responsive web applications using MERN stack (MongoDB, Express.js, React.js, Node.js) serving 100+ users
- Developed money tracker application with advanced filtering and reporting features, improving financial tracking accuracy by 25% and applying robust software development methodologies along with AWS cloud capabilities

## Projects

### Real-Time Chat Application

November 2024 – January 2025

Technologies: MERN Stack, Socket.IO, JWT Authentication, Responsive Design

- Developed scalable chat application supporting 200+ concurrent users with real-time messaging and typing indicators
- Achieved 50ms average response time through optimized Socket.IO implementation and efficient database queries

### Collaborative Document Editor

September 2024 – October 2024

Technologies: Next.js, Liveblocks, Clerk Auth, TypeScript, Real-time Synchronization

- Built Google Docs-like collaborative editor supporting 100+ simultaneous users with real-time cursor tracking
- Integrated Clerk authentication and role-based permissions, maintaining 99.5% uptime and zero security incidents

### Real-Time Video Conferencing App

June 2024 – August 2024

Technologies: Next.js, Stream API, Live Chat, Screen Sharing

- Programmed a high-quality video conferencing app using Next.js, Stream API and Clerk, supporting live streaming with 200ms latency
- Integrated real-time chat and screen-sharing functionalities for enhanced virtual meetings, increasing efficiency by 60%

### Real-Time Design Tool

March 2024 – April 2024

Technologies: Next.js, React.js, Liveblocks, Version Control

- Implemented an interactive real-time collaboration tool using Next.js, React, and Liveblocks, improving design workflow by 35%
- Deployed object manipulation, version history tracking for improved design workflow and reducing errors by 25%

## Certifications

- **Docker Training:** Completed hands-on training on Docker CLI, containerization, volumes, and networking
- **JavaScript:** Assessed on advanced JavaScript, algorithms, REST API, Object-Oriented Programming (OOP)
- **AWS Cloud Practitioner:** Gained proficiency in EC2, IAM, S3, billing models, and cloud fundamentals

February 2025

February 2025

July 2023

## Achievements

- Ranked in top 5% on HackerRank with 5-star ratings in C, Python, and JavaScript
- Elevated collaboration tool adopted by 10+ development teams, improving workflow efficiency by 35%
- Earned an 8.48 CGPA upon graduation, reflecting a sustained commitment to academic rigor; participated in 10+ research projects
- Delivered four full-stack development internships, deploying 3 web applications on time and within budget, while also contributing findings to fix the three biggest causes of crashes in the deployment process