

# ALAMDAR QANOONGO

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## EDUCATION

**New Jersey Institute of Technology**, Newark, NJ  
*Bachelors of Science in Computer Science*

May 2025

**Relevant Coursework:** Advanced Programming, Object Oriented Programming, Database System Design and Management, Data Science, Data Visualization, Intensive Programming in Linux, Internet Applications, Guided Design in Software Engineering

## EXPERIENCE

**Software Engineer Intern - B The Cause**

June 2025 - Present

- Implemented real-time AI content streaming using Laravel 12 and Vue.js, reducing client-side latency by ~45% through optimized Server-Sent Events (SSE) handling.
- Developed dynamic SSE endpoints in Laravel that improved LLM response delivery speed by 30%, enabling smooth, near real-time interaction for end users.
- Engineered MCP (Model Context Protocol) integrations to support multi-agent orchestration, streamlining AI-driven workflows and reducing context-switch overhead by 40%.
- Deployed MCP relay servers to handle concurrent LLM sessions efficiently, enabling context persistence and message synchronization across user sessions.
- Built Vue 3 composables for adaptive streaming routes and automatic reconnection logic, increasing application uptime and reducing dropped events by 60% under heavy load.
- Implemented advanced caching and authentication layer coordination to ensure 100% isolation of user sessions and prevent data leakage across AI streaming endpoints.
- Collaborated in Agile sprints with developers and AI engineers to present prototypes, integrate feedback, and achieve on-time delivery of all planned sprint goals for two consecutive quarters.

**Backend Developer - B The Cause (Capstone)**

January 2025 - May 2025

- Developed and deployed RESTful APIs using Django to support core application features
- Designed and maintained a PostgreSQL database in a Linux environment, ensuring data integrity and performance
- Collaborated with a cross-functional Agile team in 2-week Scrum sprints to deliver features on time
- Wrote unit tests and improved API reliability by reducing bugs and improving code quality

## PROJECTS

**Mental Health Website**

- Collaborated in an Agile team to develop a full-stack web application.
- Utilized PostgreSQL, Next.js, Vercel, and Drizzle ORM with TypeScript for scalable and efficient development.
- Designed and implemented backend functions for seamless database interactions.
- Developed and modified the database schema using Drizzle ORM to enhance application functionality.
- Built key features for patients and therapists, including appointment management, survey handling, journal entries, and billing integration.

**Motion Detection and Tracking**

- Implemented drone tracking using OpenCV over a static background.
- Designed a bounding box to highlight detections and visualized the drone's path.
- Captured and stored frames with detected drones for further analysis.

## SKILLS

**Programming Languages:** C/C++, Python, SQL, HTML, JavaScript, TypeScript, Bash, PHP, Java

**Tools/Libraries:** React, NodeJS, MySQL Workbench, Git, DrizzleORM, Selenium, PlayWright, MongoDB, Oracle, Django, Jira, PostgreSQL, AWS (EC2, IAM, AMI), VueJS, Laravel, PrismPHP, Maven, Spring Boot

**Operating Systems:** Windows, Linux