

# Aavash Kuikel

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## EDUCATION

### Fisk University

Expected Graduation: May 2026

*Bachelor of Science in Computer Science, GPA: 3.8*

*Nashville, TN*

- Related Coursework: Database Systems, Operating Systems, Object-Oriented Programming, Machine Learning, Analysis of Algorithm, Data Structures, Calculus II, Statistics

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, JavaScript, Swift, TypeScript

**Frameworks:** Angular, .NET, Spring Boot, Angular, Flask, Django, JUnit, Hibernate, WordPress, Apache Kafka

**Developer Tools:** Git, Docker, AWS, OpenAI, Gemini, Kubernetes, Microsoft Azure, Jenkins, Maven, SOAP

**Databases:** SQL Server, MySQL, MongoDB

## EXPERIENCE

### Machine Learning Intern

May 2024 – July 2024

*Bitforge Dynamics*

*Monroe, LA*

- Resolved the issues of shipping consolidation by applying data mining techniques, saving USD **\$10k** annually.
- Applied logistic regression model to predict the pattern of sales for products with an **80%** accuracy.
- Designed a deep learning model that detects anomalies in speech-to-text functionality reducing downtime by **83%**.
- Implemented speech recognition capabilities integrating **NLP** technologies within the existing architecture.

### Software Engineering Intern

January 2024 – May 2024

*University of Louisiana Monroe*

*Monroe, LA*

- Created a **Angular** application, integrating with **Spring Boot** backend to deliver dynamic health reports.
- Refactor backend services into modular microservices, utilizing **JPA** and **Hibernate** for database update.
- Optimized slow-performing SQL queries, reducing response times while maintaining application behavior.
- Utilized **Git** for efficient code versioning, ensuring collaboration and tracking changes across projects.

### Software Engineering Intern

August 2022 – August 2023

*Google Developers Student Club*

*Remote*

- Implemented a comprehensive software development lifecycle (**SDLC**) process for a new Spring Boot application.
- Developed **RESTful APIs** for a Spring Boot application that facilitated integration with third-party services.
- Overhauled database schema and optimized **SQL** queries to optimize system performance.

## PROJECTS

### Rental Property Management Platform | *Django, PostgreSQL, Stripe API*

May 2025

- Engineered a web application with dual dashboards for property owners and tenants, featuring property listings, tenant management, and complete rental workflows from application to lease termination.
- Integrated Stripe payment processing for online rent collection, implemented OTP-based authentication and automated notification systems, and built digital lease agreement system with role-based access control.

### Bloomberg TechLab | *React, Flask, Redis, Docker*

February 2025

- Developed a fullstack **Bloomberg.com** clone alongside Bloomberg engineers using React, Flask, Redis, and Docker, implementing dynamic UI, optimized performance through Redis caching, and streamlined deployment

### Job Portal | *Spring Boot, Thymeleaf, MySQL*

December 2024

- Created a recruitment platform using Spring Boot, MySQL, and Thymeleaf enabling recruiters to post jobs with custom filters and efficiently manage incoming applications through a centralized dashboard.
- Built streamlined application system allowing job seekers to search positions using multiple filter criteria, apply with one-click functionality using stored profiles, and communicate directly with recruiters.

### AI-Powered Emotional Journaling Platform | *Python, FastAPI, Google Gemini AI, JSON*

October 2024

- Designed an web application using Python and FastAPI that analyzes journal entries with Google's Gemini AI to identify emotions based on psychological emotion wheel theory and hierarchical emotion tree structures.
- Architected AI-powered response system that generates therapeutic advice by mapping identified emotions to their psychological origins, helping users achieve mental wellness through structured emotional analysis.