

# AHMAD SADIQ

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## EDUCATION

### Boston University

Bachelor of Arts, Computer Science

Honors: Deans list (Fall 2022, Fall 2023)

Boston, MA

Expected May 2025

## EXPERIENCE

### DuneAI

Robotics Software Engineer

Jun 2024 - Aug 2024

- Designed and implemented multi-agent pathfinding algorithms and task allocation leveraging C++ and OpenGL, optimizing robot sorting operations on a simulated grid.
- Constructed a Python barcode scanner to automate task assignment, refining task distribution.
- Wrote unit tests with Google Test, ensuring code reliability and functionality.

### AheadCare

Startup Technical Engineer

Jun 2023 - Mar 2024

- Developed an ML Predictive FAQ system using LangChain, enhancing customer interactions by 25%.
- Streamlined customer database updates operating adaptive learning algorithms, improving real-time response accuracy by 30% and reducing query processing time by 15%.
- Collaborated with investors to secure \$25,000 in funding by presenting key product insights, focusing on the scalability and impact on customer engagement.

### Starlink

Full Stack Developer

Jun 2022 - Aug 2022

- Executed a responsive e-commerce platform operating React for the frontend and Python/Django for the backend, resulting in a 20% increase in user engagement and sales.
- Optimized database queries and accomplished real-time data synchronization, improving overall platform performance and reducing load times by 30%.

## PROJECTS

### Full-Stack Quiz Application

Dec 2024

- Built a dynamic quiz platform with user authentication, difficulty-based filtering, analysis on grade.
- Deployed Django application, used PostgreSQL optimizing performance and security for user data.

### Note Taking Application with local storage

Oct 2024

- Developed a React web app for note management with CRUD operations and local storage persistence.
- Implemented state management utilizing React hooks and JavaScript for an intuitive user interface.

### Fraud Detection System with Real-Time Visualization

Aug 2024

- Implemented a fraud detection API using python for transaction data storage and retrieval.
- Designed a frontend dashboard for real-time visualization of fraud detection metrics.
- Utilized MongoDB for storing and analyzing unstructured data related to user behavior patterns.

### Boston Police Overtime Data Analysis

Nov 2023

- Analyzed 8+ years of BPD overtime data operating Python and pandas, uncovering a 260,000-hour annual discrepancy between worked and paid overtime hours.
- Visualized data with matplotlib/seaborn, showing 75% overlap between overtime and misconduct.

## SKILLS

Technical Skills: Distributed Systems, Database management, Software testing, Algorithm development, LLM, data systems, API Development, AI full stack development, problem-solving , quality reassurance

Technical Languages: C/C++, Python, Java, MySQL, React, Node-js, HTML, Flask, SQL, LangChain, Django