

Daniyal Ahmed

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Education

Boston University

May 2025

Bachelors in Computer Science - GPA: 3.58, Major GPA: 3.65

Boston, Massachusetts

Relevant Coursework: Algorithms Analysis, Software Engineering, Databases, Datascience

Experience

Chrysalis Streaming

August 2024 – Present

Tech Lead

- Rebuilt the website by migrating from static HTML to Next.js. Which improved page load speed from 3.0 to 2.5 seconds and enhancing overall scalability.
- Standardized task assignments and wrote comprehensive documentation for both teams. This allowed for more efficient work and boosted productivity by 9%.
- Refined the new database to support multiple courses per teacher and seamlessly migrated existing Chrysalis data, reducing average API response times from 500ms to 400ms.

Digital Information Research Lab At Boston University

September 2024 – December 2024

Backend Development Intern

- Built and tested prototypes to validate new concepts, utilizing user feedback and performance metrics to iterate and optimize design.
- Increased product efficiency by 15% through implementing ML-based solutions derived from research collaboration with cross-functional academic teams

Headstarter

July 2024 – August 2024

Software Engineering Fellow

- Led cross-functional team collaborations on 3 group projects, driving successful project completion through weekly sync meetings and agile methodologies
- Developed 5 open-sourced projects focused on practical applications and user engagement

Boston University Medical Campus

July 2023 – May 2024

Machine Learning Research Assistant

Boston, Massachusetts

- Enhanced GPU and CPU performance by 10% through targeted optimizations, significantly improving computational efficiency in research applications.
- Automated data processing workflows by 20% through developing Bash scripts and Docker containers for computational task management.

Projects

Scikit-learn in C++ and Python | C++, Python, Machine Learning

July 2024

- Programmed core machine learning algorithms in C++ (KNN, Decision Trees, Random Forests, Naive Bayes) and neural networks in Python, enhancing learning resources for others.

A.I Fake News Generator | Python, React, JavaScript, Large Language Models

June 2024

- Fine-tuned GPT-Neo 125M for domain-specific news generation, optimizing performance across categories like politics.
- Published over 1,000 lines of annotated code and guides on GitHub, detailing data handling and model tuning.

Deck - A Full-Stack News App | Python, React, JavaScript

March 2024

- Built a full-stack news app aggregating over 100 daily articles using News API and Reddit API, enhancing content diversity and user engagement.
- Designed and developed the entire frontend using React, while independently implementing 80% of the backend features.

Technical Skills

Languages: Python, JavaScript & React, SQL, MongoDB

Technologies/Frameworks: Linux, Machine Learning, Docker

Extracurriculars

BUILDS: Actively mentored over 20 team members weekly in this tech club enhancing their projects and assignments completion rates.