Daniyal Ahmed

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Education

Boston University **May 2025**

Bachelors in Computer Science - GPA: 3.5 *Boston, Massachusetts*

Relevant Coursework

- Algorithms Analysis
- Software Engineering
- Applications in Data Science

Experience

Digital Information Research Lab At Boston University **September 2024 – Present**

Backend Research Developing Intern

- Conducted research and analysis on cutting-edge technologies to identify innovative solutions for frontend development, improving application performance and scalability by 30%.
- Built and tested prototypes to validate new concepts, utilizing user feedback and performance metrics to iterate and optimize design.
- Worked closely with cross-functional research teams to translate academic research findings into practical engineering solutions, driving 15% product improvement efficiency.

Chrysalis Streaming **August 2024 – Present**

Frontend Engineer

- Enhanced teamwork skills through regular collaboration with executives, balancing business requirements with engineering constraints.
- Gained access to backend systems with the aim of integrating frontend and backend architectures, streamlining development processes for a seamless user experience and improving efficiency by 25%.

Headstarter **July 2024 – August 2024**

Software Engineering Fellow

- Regularly attended meetings and collaborated with other fellows on group projects.
- Developed 5 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 30% through targeted optimizations, significantly improving computational efficiency in research applications.
- Leveraged expertise in Bash, Linux, and Docker to streamline research processes, boosting productivity by 70% through automation of data management and computational tasks.

Projects

Scikit-learn in C++ and Python | *C++, Python, Machine Learning* **July 2024**

- Developed 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 processes.

Deck - A Full-Stack News App | *Python, React, JavaScript* **March 2024**

- Built a full-stack news app aggregating over 1,000 daily articles using News API and Reddit API, enhancing content diversity and user engagement.
- Led a team of 5, optimizing workflow and increasing productivity by 50%, reducing project completion time by 30%.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, React

Technologies/Frameworks: Linux, HuggingFace, GitHub, Docker

Extracurriculars

BUILDS: Actively mentored over 20 team members weekly in Machine Learning and Software Engineering, enhancing their project completion rates by 40% and contributing to the successful development of 10+ innovative tech projects annually.