Tanjim Ahammad

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EDUCATION

Stony Brook University — Stony Brook, NY   Expected Graduation: May 2026
B.S. Computer Science with Specialization in Artificial Intelligence and Data Science

COURSEWORK

Relevant Courses: Data Structures, Foundations of Computer Science, Software Development, Systems Fundamentals, Probability & Statistics, Analysis of Algorithms, Software Engineering, Data Science

EXPERIENCE

Software/Platform Engineer Intern | MetLife   June 2025 – Present

- Enabled data-driven decision-making and strengthened portfolio alignment across multiple lines of business by engineering scalable analytics solutions through dashboards, optimized ETL pipelines, and cross-platform reporting
- Enhanced data integrity and platform reliability across TargetProcess and Azure DevOps by developing API integrations, optimizing databases, handling JSON data, and applying configuration management and automated testing practices
- Prevented system downtime and performance degradation by developing automated monitoring scripts, implementing load testing methodologies, and applying predictive analytics to identify bottlenecks across enterprise platforms, managing 50,000+ work items
- Accelerated issue resolution and feature delivery in an Agile environment by collaborating with engineers, product owners, vendors, and lines of business to translate requirements into scalable solutions bridging business and technical needs

Software Engineering Fellow | Headstarter AI   July 2024 – September 2024

- Developed and deployed AI-driven applications using Next.js, OpenAI, Pinecone, and StripeAPI, enhancing user experience and functionality
- Led a team of 4 engineering fellows in full-stack development projects, implementing MVC design patterns to improve code maintainability and scalability
- Enhanced skills in Agile methodologies, CI/CD pipelines, Git version control, and microservices architecture by collaborating with engineers from Amazon, Google, and Capital One

PROJECTS

R.A.I.T My Professor | *JavaScript, Python, HTML, CSS, React, Next.js, Pinecone, Vercel*

- Leveraged OpenAI and designed a robust API to provide intelligent, context-aware information about professors and courses, ensuring seamless user interaction and query processing
- Utilized Pinecone for vector database management and OpenAI for natural language processing
- Integrated Retrieval-Augmented Generation (RAG) techniques to enhance the AI assistant's ability to generate relevant and context-aware responses to user queries

FlashBack AI | *JavaScript, Firebase, OpenAI, React, Next.js, Clerk, Stripe*

- Created an AI-powered flashcard web application that generates study materials based on user-defined topics, enhancing learning efficiency
- Implemented secure user authentication, enabling users to register, log in, and access their personalized flashcard sets
- Deployed Firebase for robust user authentication and storage of flashcard data, ensuring seamless access and data integrity
- Integrated seamless payment processing via Stripe, allowing users to easily purchase subscription plans for additional features.

Search and Replace | *C*

- Developed a C program that reads a .txt file and replaces all instances of a user-specified word, supporting complex search-and-replace operations.
- Generates a new .txt file with the updated content, ensuring original data preservation.
- Added functionality to replace words based on user-defined suffixes or prefixes, increasing the flexibility of the search-and-replace tool.

SKILLS

Languages: Python, OCaml, C, Java, JavaScript, Ruby on Rails, Assembly, R, LaTeX,
Tools & Databases: Git/GitHub, Linux, Unix Shell, R, React, Node.js, Next.js, Express.js, HTML, CSS, Pinecone, Clerk, PostgreSQL, MongoDB, Firebase, Stripe, Vercel, Blender, OpenAI, AWS