

Niloy Saha

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EDUCATION

Dickinson College

Bachelor of Science in Computer Science and Data Analytics

Jun. 2027

Carlisle, PA

Relevant Coursework: Introduction to Python, Introduction to Java and OOP, Data Structures and Problem Solving, Tools and Techniques for Software Development, Large-scale and Open Source Software Development, Discrete Mathematics, Introduction to Data Science

EXPERIENCE

• Development Initiative for Social Awareness (DISA)

Software Development Intern

Jul. 2024 – Aug. 2024

Dhaka, Bangladesh

- Built a microfinance management system with Bootstrap and JavaScript, integrating secure authentication and real-time data processing for 500+ users.
- Optimized MySQL queries, improving system efficiency by 40% and cutting data retrieval time by 25%, enhancing the Aloghar digital library's performance.

• 84 Lumber

Student Researcher

Nov. 2023 – Mar. 2024

Carlisle, PA

- Engineered an ML-driven pipeline modernizing a 10,000+ line legacy C Basic codebase, enhancing processing efficiency and system maintainability.
- Translated 30% of a legacy C Basic codebase into Java and Python, improving code readability and system maintenance efficiency, boosting developer productivity.

PROJECTS

• StudyBuddy - AI-Powered Learning Platform

Next.js, TypeScript, Tailwind CSS, AI APIs, React, Clerk

Dec. 2023 – Present

[Link](#)

- Designed and launched an AI-powered learning platform that transforms lecture content into structured study materials, integrating live transcription, interactive note-taking, and dynamic demo questions, providing value to 50+ active users.
- Engineered a responsive UI with Next.js and TypeScript, implementing real-time AI transcription and summarization, achieving a 98% accuracy rate and enhancing study efficiency for users.

• Automated Sentiment Analysis

Python, Data Processing

Nov. 2023 – Dec. 2023

- Developed a machine learning-based sentiment analysis system using Python for processing movie reviews.
- Achieved 82% accuracy on a dataset of 5000+ reviews, with 95% precision for strongly positive/negative sentiments.

ADDITIONAL INFORMATION

Languages: Java, Python, C, JavaScript, TypeScript, HTML/CSS, R

Developer Tools: Git, Visual Studio, Supabase, Clerk, PyCharm, Docker, Eclipse, JUnit, command line tools

Libraries: React, Tailwind CSS, Next.js, NumPy, Matplotlib, Pandas