

Niloy Saha

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EDUCATION

Dickinson College

B.S. in Computer Science and Data Analytics

Jun 2027

Carlisle, PA

Relevant Coursework: Data Structures, Open Source Software Development, Analysis of Algorithms, Database Systems, Computing Abstractions, Introduction to Data Science, Object-Oriented Programming, Operating Systems, Linear Algebra, Discrete Mathematics.

SKILLS

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

Tools: Git, Docker, Command Line Tools, Selenium, Cypress, JUnit, PyTest, Eclipse, PyCharm

Technologies: React, Next.js, Vue.js, Node.js, Express.js, Tailwind CSS, REST APIs, AWS Lambda, MongoDB

EXPERIENCE

• FarmData2

Software Engineer Intern

May 2025 – Jul. 2025

Carlisle, PA

- Developed and refactored 10+ core UI components using Vue.js, resolving critical bugs to improve front-end stability.
- Authored and maintained 15+ Cypress test files for end-to-end and component testing, achieving 75%+ coverage.
- Streamlined developer workflows by implementing Git pre-commit hooks to enforce linting rules.

• Development Initiative for Social Awareness (DISA)

Software Development Intern

Jul. 2024 – Aug. 2024

Dhaka, Bangladesh

- Engineered a microfinance management system using JavaScript and Bootstrap, implementing system documentation for 500+ users.
- Integrated RESTful APIs and optimized MySQL queries, achieving 25% faster data retrieval.

• 84 Lumber

Student Researcher

Nov. 2023 – Mar. 2024

Carlisle, PA

- Developed a machine learning pipeline to modernize legacy codebase, creating detailed technical documentation and process improvement recommendations.
- Successfully translated 30% of legacy C Basic codebase to Java and Python, enhancing system maintainability.

PROJECTS

• Retal - Peer-to-Peer Rental Marketplace

Next.js, React, TypeScript, tRPC, PostgreSQL, Prisma, Supabase, Auth.js, Tailwind CSS

Jun. 2025 – Present

[Link](#)

- Developing a full-stack, type-safe rental marketplace with secure authentication and a scalable PostgreSQL schema.
- Built type-safe APIs using tRPC and deployed the platform on Vercel for real-world testing.

• WatchNext - Full-Stack Media Tracker

React, Node.js, Express.js, MongoDB, Tailwind CSS, JWT

Aug. 2025 – Present

[Link](#)

- Designing and building a decoupled, full-stack web application to track watched movies and TV shows.
- Architecting a secure REST API with Node.js and Express for user authentication, data management, and integration with the TMDB API.

• StudyBuddy - AI-Powered Learning Platform

Next.js, TypeScript, Tailwind CSS, OpenAI and Gemini APIs, Clerk

Dec. 2023 – Jan 2025

[Link](#)

- Co-developed an AI-powered platform that transforms lecture content into structured study materials for 50+ users.
- Engineered a responsive UI with Next.js, implementing real-time AI transcription with 98% accuracy.

• Automated Sentiment Analysis

Python, Data Processing

Nov. 2023 – Dec. 2023

- Engineered a machine learning-based sentiment analysis system with detailed technical documentation.
- Achieved 82% accuracy on 5000+ reviews through systematic requirement analysis and iterative improvement.