

# Shaikh Ibrahim Rahman

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## EDUCATION

### Dickinson College

Carlisle, PA

*Bachelor of Science in Computer Science and Mathematics, GPA: 3.65*

*Expected: May 2026*

- Relevant Courses: Data Structures, Analysis Of Algorithms, Artificial Intelligence, OOP with Java, Discrete Maths, Computational Mathematics, Computing Abstraction, Open Source and Large-scale Software Development, Data Analysis with R, Data Systems and SQL, Economics

## TECHNICAL SKILLS

**Software/Languages:** AutoCad, ArcGIS, Python, Java, C, JavaScript, HTML/CSS, PHP, MATLAB

**Frameworks/Libraries:** React, Node.js, AngularJS, Vue.js, Spring, Redux, Django

**DevOps/Cloud:** Docker, Kubernetes, AWS, Azure, Google Cloud, PowerShell, Datadog

**Data Analysis:** Data Analytics, Data Visualization, Excel, Power BI

**Project Management:** Agile, SDLC, Frontend/Backend Development, Mobile Development, Web Services

## WORK EXPERIENCE

### Software Developer Intern

June 2025 – August 2025

*84 Lumber*

*Eighty Four, PA*

- Translated legacy CBasic code to optimized, production-ready Python for the company's POS system, reducing execution time and enabling long-term maintainability.
- Built and integrated a MySQL database to replace hardcoded file storage, modernizing data handling and supporting a new Angular + TypeScript dashboard for real-time business insights.
- Collaborated with Business Analysts on QA testing by automating output file comparisons across thousands of transaction records, ensuring system accuracy and reliability.

### Software Engineering Intern

June 2024 – August 2024

*Biman Bangladesh Airlines*

*Dhaka, Bangladesh*

- Processed and analyzed flight operations data using MySQL to identify performance trends and support data-driven decision making.
- Conducted quantitative analysis of database queries and user traffic, implementing optimizations that improved data retrieval efficiency by 15%.
- Built structured datasets and applied caching strategies to evaluate alternative scenarios, reducing response times by 20% during peak usage.
- Validated data accuracy, troubleshooted system errors, and collaborated with cross-functional teams to improve platform stability and analytical reporting.

### Software Developer

January 2024 – May 2024

*FarmData, Dickinson College*

*Carlisle, PA*

- Resolved issues in the seeding input system that caused data validation errors, reducing error rates by 40% and improving overall functionality.
- Implemented Cypress for end-to-end testing, creating 50+ test cases to fix data input and UI bugs. Optimized MySQL queries to improve retrieval speed by 20% and refactored RESTful APIs for better performance.
- Redesigned the frontend components using Vue.js, which significantly improved the user experience. This led to a 20% increase in user satisfaction based on feedback from customer surveys.

### Software Developer Intern

June 2023 – August 2023

*Systech Digital Limited*

*Dhaka, Bangladesh*

- Developed automated websites using PHP, HTML, CSS, and JavaScript, streamlining report card generation for over 1,500 students, which reduced administrative workload by 30%.
- Implemented real-time grade tracking and automated report card features, including GPA calculations and PDF exports using the TCPDF library, resulting in an 50% decrease in processing time and an 20% reduction in calculation errors.
- Optimized MySQL databases by normalizing schemas, adding indexes, and implementing prepared statements, improving query response time by 15% and enhancing security against SQL injection attacks.
- Conducted thorough testing and debugging using Jest, leading to a robust application that increased user satisfaction by 10%.

## PROJECTS

### TravelSmith | HackPrinceton 2025

[Link](#)

- Built an AI-powered group travel planner using MCP, Dedalus Lab, and OpenAI for context-aware trip recommendations.
- Developed a real-time chat app with Supabase, FastAPI, and a responsive Next.js frontend for group collaboration.

### Blood Donor Search Platform

- Developed a full-stack MERN app allowing users to register/log in and search blood donors by blood-group, gender, city etc.
- Built a responsive UI with React.js, integrated with a Node.js/Express.js API and MongoDB, deployed on Heroku and Netlify.