

SHOWMIK BHOWMIK

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EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY

August 2022 - May 2026

Bachelor of Science, Computer Science • Cumulative GPA: 3.78/4.0

Rochester, New York

Honors and Awards: CS Honors Program • Dean's List (Fall 2022, Spring 2023, Fall 2024) • International Founders Scholarship Recipient • International Student Outstanding Service Award • Alpha Phi Omega Scholarship

WORK EXPERIENCE

SOFTWARE ENGINEER CO-OP

May 2025 - August 2025

LAPP INSULATORS

LeRoy, New York

- Optimized backend algorithms by reducing API response time by **45%**.
- Improved scalability, query speed, and reliability for **10K+ daily users** by migrating legacy SQL services to a distributed cloud-based database.
- Refactored the in-house event-processing system, reducing latency by **25%**.
- Consolidated multiple services into a unified architecture, improving maintainability and scalability.

SOFTWARE ENGINEER CO-OP

May 2024 - August 2024

WORLDWIDE ELECTRIC

Rochester, New York

- Developed custom solutions using **Epicor/Prophet 21** framework and **C#** to **enhance user tools** by integrating new functionalities such as **user-accessible** pick ticket logging areas and new interaction entry points.
- Improved **analytics** by integrating **custom logging mechanisms** with **SQL Server Reporting Services (SSRS)**
- Learned how to assume **product management roles** through hands-on experiences in **leading cross-functional meetings** between **multidisciplinary teams** and individuals to ensure **project alignment and timeline estimation**.

STUDENT LAB INSTRUCTOR

August 2023 - August 2025

RIT Golisano College of Computing and Information Sciences

Rochester, New York

- Providing mentorship and assistance to **25 students** for academic support towards improved assignment submissions, debugging practices, and step-by-step code analysis to meet industry standards and practices.
- Grading assignments on strict deadlines and **providing detailed feedback** for approximately **50 students** to help them improve future submissions and learn from errors and guidelines.

RESIDENT ADVISOR

August 2023 - Present

RIT Center for Residence Life - Division of Student Affairs

Rochester, New York

- Trained on a bi-annual basis to be the first line of residential student **crisis management** by learning advanced skills in managing incidents, administrative duties, and conflict resolution to ensure a safe and supportive environment.
- Fostering and **facilitating community development** by guiding students towards essential on-campus resources, enhancing their personal, academic, and professional growth.

PROJECTS

VISION-VOICE

- Developed VisionVoice using AI models (**Salesforce's BLIP, Microsoft's SpeechT5, Google's Gemini**) to convert videos into accessible audio/text for users with visual impairments.
- Built a seamless system with **Python, FastAPI** and **Angular**, ensuring low-latency content delivery.
- Played a pivotal role in VisionVoice's team of three, blending **product management** with technical solutions, driving the project's success and commercial introduction.

CODECHEF

- Created a website focused on easing the culinary journey of users seeking to personalize their recipes based on ingredients, measurements, and cooking times, built using **Angular, TypeScript, HTML and CSS**.
- Overcame the challenge of website responsiveness, enhancing user experience by using caching and streamlined data retrieval methods, resulting in a **50%** reduction in page load times.
- Implemented a dynamic recipe recommendation AI engine by integrating **GPT 3.5**

SKILLS

- Programming Languages: **Java, Python, C, C#, Go, SQL (Postgres), JavaScript, HTML/CSS**.
- Machine Learning / AI: **PyTorch, TensorFlow, JAX, computer vision, NLP, and speech processing**.
- Web & App Development: **React, Angular, Node.js, Blazor, Bootstrap, Material-UI, Razor, UI/UX, REST APIs**.
- Developer Tools & Workflows: **Git, Azure DevOps, Maven, IntelliJ, VS Code, Visual Studio, Jupyter Notebook**