Shimanto Bhowmik

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EDUCATION

Rochester Institute of Technology   Rochester, N.Y.
Bachelor of Science in Computer Science   *Aug. 2021 – May 2026*
Cumulative GPA: 4.0/4.0

TECHNICAL SKILLS

Languages: Python, Java, C, C++, SQL (Postgres), JavaScript, HTML/CSS, TypeScript, Bash, Assembly
Frameworks: Angular, React, Node.js, Spring Boot, NestJS
Developer Tools: Git, VS Code, Visual Studio, PyCharm, Maven, IntelliJ, Jupyter Notebook, AWS
Other: Unix, CI/CD, Machine Learning, Natural language processing, Neural Networks, Tensorflow

EXPERIENCE

Machine Learning Engineer   September 2023 – December 2023
Sage AI   Remote
- Utilizing large language models to build advanced financial analysis tools, empowering organizations with comprehensive data-driven insights and informed decision-making capabilities.
- Leveraging React, Python, nest-js, and lang chain to automate tasks and develop scalable software solutions, driving efficiency and productivity in complex financial environments of the future.
- Implemented efficient data ingestion processes for SEC filings and enhanced model interactivity, optimizing data-driven decision-making.

Software Development Engineer Intern   May 2023 – August 2023
Amazon Alexa   Seattle, WA.
- Accelerated the evaluation of state-of-the-art large language models, improving their performance by 20% based on predefined criteria to inform strategic decision-making and advance language model technologies.
- Developed infrastructure empowering scientists to conduct rapid experimentation of large language models, resulting in 30% reduction in testing time and driving innovation in language model research and development.
- Designed and implemented a metric system to analyze model performance, resource efficiency, and latency.

Student Lab Instructor   August 2022 – May 2023
Rochester Institute of Technology   Rochester, N.Y.
- Mentored 25 students every week, help them debug and analyze code for homework and projects, and use CS fundamentals expertise in order to help advance their knowledge while promoting a helpful environment.
- Graded assignments and provide detailed feedback for about 50 students to help them improve future submissions and learn from shortcomings.

Section Leader   April 2023 – June 2023
Stanford University   Remote
- Volunteered as a Section Leader for Stanford's Code in Place course, guiding 25 diverse students through Python programming fundamentals and providing feedback on assignments.
- Collaborated with instructors and Section Leaders to create a supportive learning environment resulting in 90% retention rates and positive student feedback.

Research Assistant   Jan 2022 – May 2022
Department of Computing Security, Rochester Institute of Technology   Rochester, N.Y.
- Implemented Python programs and scripts to automate critical processes, streamlining operations and eliminating manual tasks, including the automation of Excel functions.
- Programmed server-side databases using MySQL and socket programming, while also implementing an improved Shamir's Secret Sharing Scheme to simulate realistic data exchange among SmartMeters, Aggregators, and Electrical Utility Units on Raspberry Pis.

Resident Advisor   Jan 2022 – Current
RIT Center for Residence Life   Rochester, N.Y.
- Connected residential students' needs and interests to community engagement and leadership opportunities on campus and beyond.
- Led crisis management initiatives while cultivating self-advocacy skills through experiential learning programs.

ACHIEVEMENTS

- Outstanding 1st Year Student Scholarship Award - RIT
- Asia Pacific ICT Award (APICTA) - China
- Bangladesh Association of Software Information Services - National ICT Award