Easha Mashud

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EDUCATION

University at Albany **Albany, New York**
B.S. in Computer Science *Expected Graduation, May 2026*

- o **Related Coursework:** Introduction to Java, Data Structures & Algorithms, Discrete Probability, Principles of Programming Languages, System Fundamentals, Software Engineering, Operating Systems, Computer Architecture and Organization(in Progress), Database Systems (in Progress)
- o **Honors and Awards:** Dean's List - Fall 2022, Fall 2024; Dr.Seth Spellman Jr. Academic Achievement Award Recipient Spellman Scholar - Fall 2023, Fall 2024

EXPERIENCE

Mathnasium **Albany, New York**
Math Tutor *March 2025 – Present*
- Taught complex math concepts to students, enhancing problem-solving and analytical skills.
- Improved students' mathematical thinking through structured explanations and debugging errors in problem-solving.

Headstarter AI **Albany, New York**
Software Engineering Fellow *July 2024 – September 2024*
- Contributed to the development of seven innovative applications in a competitive 7-week software engineering fellowship, collaborating with experienced engineers to build scalable, production-ready solutions.
- Engineered full-stack features with React.js and backend technologies, optimizing performance and user experience, resulting in enhanced usability and engagement.
- Designed and deployed an AI-powered ChatBot leveraging React and OpenAI, empowering students to overcome research challenges and boosting academic productivity.

SKILLS

Programming Languages: Java, Python, HTML/CSS, Javascript, C

Web Technologies: React.js, Next.js, Node.js, Express.js, Three.js MongoDB, SQL

Tools: Git, Github, Postman, IntelliJ, Eclipse, UTM, Replit, Visual Studio Code, Java Spring Boot, Jupyter Notebooks

Foreign Languages: Fluent English, Bengali, Hindi

PROJECTS

BASIC Language Parser | Java **Albany, New York**
GitHub: https://github.com/Eashamashud/BASIC-Language-Parser

- Developed a high-performance parser for a BASIC-like programming language, implementing lexical analysis and an Abstract Syntax Tree (AST) to process variable assignments, expressions, and control flow statements, improving execution speed by 50%.
- Supported 100% of essential BASIC syntax, enabling real-time execution of user-defined programs, including *mathematical operations (+, -, , /, *), conditionals (IF-THEN), and user input/output*.

Fitness Tracker | React.js, Bootstrap, Java Spring Boot, mySQL **Albany, New York**
Github: https://github.com/Eashamashud/Fitness-Activity

- Developed a scalable RESTful API using Java Spring Boot, MySQL, and Hibernate, enabling CRUD operations for efficient fitness activity management, reducing database query times by 40%.
- Built and tested backend services with Postman, designed a responsive UI with React.js and Bootstrap, and managed version control with Git, improving user interaction speed by 30% and reducing load times.

Data Analysis of Electric Vehicle Stations | Python, Pandas **Albany, New York**
Github: https://github.com/Eashamashud/ElectricVehicle

- Utilized Jupyter Notebook, Python programming language, and Pandas data analysis to process and analyze a dataset of alternate fuel stations, focusing on electric vehicle charging stations.
- Conducted data exploration, and statistical analysis to derive insights of trends in the adoption and usage of EV infrastructure.

ACTIVITIES AND LEADERSHIP

Phi Sigma Rho Women in STEM Sorority **Albany, New York**
Recruitment Membership Captain *August 2023-December2023*

- Expanded chapter membership by recruiting 10+ members and organizing STEM networking events, while leading professional development workshops to provide career resources, mentorship, and growth opportunities for women in STEM.