

# ATYANTA RUPAKHETI

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## EDUCATION

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### George Mason University | Fairfax VA

Aug 2021 — May 2025

*Bachelor of Science in Computer Science* | GPA: 3.86

- **Relevant Coursework:** Data Structures, Analysis of Algorithms, Object-Oriented Programming, Advanced C Programming, Software Engineering, Probability and Statistics, Professional and Technical Writing, Discrete Mathematics, Linear Algebra, Analytic Geom and Calc I, II, III
- **Awards/Honors:** Dean's List, Mason Idea Scholarship

## PROJECTS

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### Algorithm Visualization Project

- Spearheaded the development of a comprehensive visualization tool for complex algorithms such as Dijkstra's, Prim's, Kruskal's, and Bellman-Ford.
- Utilized JUNG (the Java Universal Network/Graph Framework) to create interactive and educational visual representations.
- Focused on enhancing understanding and analysis of algorithm efficiency and behavior in different scenarios.

### HAKE CPU Scheduler in C

- Developed a CPU scheduler for TRILBY Virtual Machine.
- Streamlined process management with functions to manage nodes across different queues.
- Prioritized memory efficiency, integrating seamlessly with existing codebase.

### Minesweeper Game

- Created a dynamic Minesweeper game featuring an intuitive GUI.
- Seamlessly integrated core game mechanics and prioritized user experience.
- Rigorously tested and debugged for optimal performance and user engagement.

## SKILLS

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- Programming Languages: Java, C, C++, Python, HTML, CSS, SQL, R, JavaScript (React)
- Tools / Technologies: Agile, Git, GitHub, Windows, Linux, MySQL
- Software Proficiency: MS Office 365, GUI, Custom Library Design

## EXPERIENCE

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### Group Project Leader | George Mason University

Jan 2024 — Present

- Directed a focused team in the successful development of a desktop application designed to improve user productivity.
- Enhanced existing project with innovative features like activity timers and habit tracking, significantly improving user engagement and satisfaction.
- Applied Agile methodologies and Git for project management, facilitating efficient team collaboration and version control.
- Cultivated trust and motivated team members, ensuring project alignment with user needs and software quality standards.

### Mason Competitive Cyber | Fairfax, VA

August 2021 — May 2024

- Collaborated on cyber-resilient projects, aligning with George Mason University's Cyber Security standards.
- Integrated academic insight from CYSE majors to refine cybersecurity strategies.
- Received mentorship from CYSE advisors, bridging academic theory with real-world application.
- Actively competed in diverse Capture The Flag (CTF) challenges, honing skills in areas like web, crypto, and exploitation.