

Simmi Kumari

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EDUCATION

Bachelor of Science in Computer Science

August 2024 - December 2028

Georgia State University | Honors College

Atlanta, Georgia

Awards/Honors: Georgia State University's 100% Campus Atlanta Freshmen Scholarship

Organizations: Computer Science Club, Cybersecurity Club, Chess Club, Student Alumni Association, Mathematics and Statistics Club, WomenLead, Finance & Investment Network, Programming Club @ GSU, Girls++

Relevant Coursework: Hons. Principal of Computer Science – II (Spring'25), Theoretical Foundation of Computer Science (Spring'25), Calculus II (Spring'25), Data Structures(Fall'25), System Level Programming (Fall'25), Computer Org & Programming (Fall'25), Probability & Statistics for Computer Science(Fall'25), Linear Algebra(Fall'25)

SKILLS

Programming Languages: C, C++, Python, and JavaScript

Software/Skills: Android Studio, VS Code, Microsoft Office Suite, GitHub, Git, GitBash, HTML, CSS, Final Cut Pro, DaVinci Resolve

Certifications:

- Harvard's CS50P Introduction to Computer Science
- Harvard's CS50x Introduction to Programming with Python
- Harvard CS50's Introduction to Artificial Intelligence with Python
- CodePath's Advanced Data Structure and Algorithm with Python

Soft Skills: Problem-Solving, Critical Thinking, Leadership, Time Management, Adaptability, Teamwork

WORK EXPERIENCE

Math Path Scholar

CASA | Georgia State University

June 2025 – August 2025

- Developed an AI-powered assistant using large language models (LLMs) to detect and evaluate symptoms of depression from clinical interview transcripts.
- Implemented Retrieval- and Cache-Augmented Generation (RAG/CAG) techniques to support accurate qualitative and quantitative assessments.
- Designed and tested prompts for automated PHQ-8 score prediction with ~78% accuracy on supported questions.
- Built scalable prompt systems for both symptom extraction and diagnostic score estimation using Gemma 3 27b and other LLMs.
- **Tech/Tools:** Python, LLM APIs (Gemma 3), Ollama, Prompt Engineering, Slack
- **Focus Areas:** AI in Mental Health, Natural Language Processing, Interdisciplinary Research

Undergraduate Lab Assistant for Precalculus

January 2025 – April 2025

Mathematics Interactive Learning Environment (MILE) | Georgia State University

- Provided one-on-one and group tutoring in algebra, calculus, and statistics to over 300 students, enhancing their understanding of complex mathematical concepts
- Developed tailored learning strategies that simplified problem-solving processes, driving up to threefold improvement in student performance and grades.
- Fostered a positive, engaging learning environment, boosting student confidence and success, resulting in an over 2 times increase in student retention for tutoring sessions.

Volunteer Researcher

September 2024 – December 2024

University AI Research | Georgia State University

- Conducted research as part of the AI2 Research Laboratory, which aims to use AI to enhance student's learning experience
- Worked on the front-end development of research projects using HTML, CSS, JavaScript to create a user-friendly interface
- Tested AI and path finding algorithm models.
- Fostered a positive, engaging learning environment, boosting student confidence and success, resulting in an over 2 times increase in student retention for tutoring sessions.

Tour Guide, Tele-counsellor and Social Media Influencer

February 2025 - Present

Welcome Center | Georgia State University

- Led campus tours for prospective students and families, providing detailed information about university facilities, programs, and student life.
- Coordinated tour schedules and managed check-ins, ensuring smooth operations and a positive experience for visitors.
- Responded to inquiries from prospective students and families in person, via phone and email, addressing questions about campus life, academics, and admissions processes.
- Created engaging and collaborated with teams to promote admissions initiatives by showcasing student life and events.