

Joshika Reddy Avuthu

(678) 429-7632 | joshika.avuthu@gmail.com | <https://www.linkedin.com/in/joshikareddyavuthu/> | <https://github.com/Joshika-21>

Education

Georgia State University, Atlanta, GA

Aug 2022 – May 2026

Bachelor of Science in Computer Science

GPA: 4.0/4.0

- President's List: Awarded to student with GPA of 4.0 or higher
- Member of the National Society of Collegiate Scholars
- **Coursework:** OOPs with Python, Data Structures, System-level programming, Computer Organization and Programming, Operating Systems, Mobile App Development and Fundamental of Data Science.

Technical Skills

Programming Languages: Python, Java, CSS, HTML, C++, C, JavaScript, TypeScript

Technologies & Tools: Tableau, Power BI, Data Studio, AWS, Azure, React.js, MySQL

Certifications: 100 Days of Code: The Complete Pro Bootcamp (Udemy), C Programming for Beginners – Master the C language (Udemy), Beginning C++ Programming (Udemy)

Projects

ResuMatch, Athens, GA

- Spearheaded a cross-platform AI resume builder with FastAPI and Flutter, cutting resume creation time by 80%.
- Integrated Ollama AI API (Llama 3.3) for automated resume generation with 95% relevance based on user data.
- Generates edited resumes based on analysis of the model using current skills, job descriptions and any user inputs.
- Utilized Pinata IPFS for decentralized, secure cloud-based resume storage with 24/7 accessibility and data privacy.
- Optimized API performance using asynchronous FastAPI requests, reducing response time and enhancing user experience.

Multi-Threaded Web Crawler, Atlanta, GA

- Orchestrated a high-performance multi-threaded Java web crawler with ExecutorService, boosting efficiency by 70%.
- Applied Jsoup for HTML parsing, extracting data and dynamic URL filtering to extract structured data.
- Implemented URL persistence using file-base serialization to resume sessions, reducing redundancy and processing time.
- Optimized thread management with real-time pool adjustments, cutting crawl time by 50% on large datasets with good stability.

Prepper.ai, Atlanta, GA

- Developed a meal planning site with Flask and Streamlit, accepting inputs for ingredients, dietary restrictions, and cuisines.
- Interfaced Google Gemini AI API to generate personalized recipes with 90% accuracy based on available ingredients.
- Designed and implemented a NoSQL Firestore database that reduced query response times and enabled real-time storage.
- Built a scalable multi-user system with Google Firebase authentication, ensuring secure data handling and an efficient UI.

Professional Experience

STEM Tutor – Student Assistant

August 2024 – Present

MAC Lab, Department of Mathematics & Statistics, Georgia State University

- Delivered tutoring sessions in math and statistics, improving student comprehension and performance.
- Mentored around 50 students on problem-solving techniques, leading to noticeable academic improvements.
- Facilitated group study sessions and review workshops, reinforcing course material and boosting exam readiness.
- Created personalized study guides & practice problems, addressing individual challenges to enhance their performance.

Knack Tutoring – Computer Science Tutor

August 2024 – Present

Knack, Department of Computer Science and Mathematics, Georgia State University

- Provided tutoring in computer science in areas of Object-oriented programming, Data Structures and Algorithms
- Offered assistance in math, covering topics like College Algebra, Precalculus, and Calculus.
- Dealt with close to 10 sessions a week helping out students with a satisfactory rate of over 90%.
- Simplified complex topics to boost student confidence and foster independent problem-solving.