

# HIMESH RATHNA DUDDALA

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## EDUCATION

### George Mason University

Bachelor of Science in Computer Science

Fairfax, VA

Expected Graduation, May 2026

- **GPA:** 3.5
- **Coursework:** Data Structures & Algorithms, Machine Learning, Natural Language Processing, Operating System, Java - Object Oriented Programming, Python, Statistics & Applications, Algebra.

## EXPERIENCE

### Learning Assistant

George Mason University, College of Science

August 2024 – present

Fairfax, VA

- Guided students through complex concepts by facilitating interactive problem-solving sessions and one-on-one mentoring, fostering deeper understanding and confidence in their abilities.
- Engaged students through effective communication, aiding in breaking down complex technical concepts.
- Continuously refined teaching and communication skills through ongoing workshops, applying insights to make learning more accessible and impactful.

### Undergraduate Teaching Assistant

George Mason University, Department of Computer Science

August 2023 – Present

Fairfax, VA

- Actively engaged with students to enhance their understanding of Python programming by facilitating both one-on-one tutoring sessions and group study workshops, fostering a collaborative learning environment.
- Assisted students in grasping complex programming concepts, from basic syntax to advanced data structures, by breaking down difficult topics into manageable parts and providing relatable examples.
- Guided students through the debugging process, empowering them to identify and resolve errors in their code, which helped build their problem-solving skills and independence in coding.
- Collaborated closely with faculty to monitor student progress and identify common challenges, ensuring that support was tailored to meet the needs of each learner.

## PROJECTS

### Real-Time Conversational Fact Checker

AI & NLP Project — Python, Hugging Face, Google Knowledge Graph, Wikipedia API, Slack/Discord

- Developed an AI-powered tool for real-time, automatic fact-checking using NLP and API integrations.
- Utilized Hugging Face Transformers for NLP-based claim detection and classification, improving accuracy.
- Integrated multiple APIs (Google Knowledge Graph, Wikipedia) to verify claims and provide relevant, credible source links.
- Built an interactive chatbot for Slack/Discord to identify and fact-check claims in real-time conversations.
- Optimized system performance for sub-2-second response times, ensuring seamless, immediate feedback in live discussions.
- Implemented Named Entity Recognition (NER) to detect and analyze key factual claims from live conversations.

### Personal Expense Tracker

Web Development Project — Python, Flask, SQLite, Chart.js

- Developed a web app that enables users to track and categorize their expenses while generating detailed summary reports with date and category filters, significantly enhancing financial management and informed decision-making for better budgeting.
- Designed a responsive and user-friendly interface using HTML, CSS, and Bootstrap, incorporating dynamic visualizations with Chart.js to effectively showcase spending trends and help users make informed financial decisions.
- Developed a secure backend and user-friendly interface to improve financial management.

## TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C, C++, React.js, Node.js, R, TypeScript
- **Software Development:** Full-stack web development, API integration, software testing
- **AI/ML:** TensorFlow, PyTorch, Hugging Face, Scikit-learn, Generative AI, LLMs
- **Operating Systems:** Linux, Unix, MacOS, Windows, Docker
- **Database Management:** MySQL, MongoDB
- **Web Development:** HTML, CSS, JavaScript, Bootstrap
- **Tools:** Docker, MS Office Suite