

Samyu Krishnasamy

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EDUCATION

University of Virginia

Expected May 2026

Bachelor of Arts in Computer Science, Minor in Data Science | GPA: 3.95/4.00

Charlottesville, VA

- Coursework: Software Engineering, Software Development Essentials, Artificial Intelligence, Natural Language Processing, Data Systems, Data Design: Interactive Apps

EXPERIENCE

Software Engineer II Intern

June 2025 – Present

Walmart Global Technology

Bentonville, AR

- Engineered and deployed a full-stack redesign of the Sam's Club demand planning dashboard (React/TypeScript, Spring Boot), improving data analysis and providing critical accuracy insights that enhanced decision-making for 30+ demand planners
- Pioneered an **Agentic AI** chatbot using **Ollama LLM** to provide analysis of key forecast metrics, creating a proof-of-concept projected to reduce manual labor hours by 20% via automated forecasting overrides
- Provided critical production support by reducing over 50 bugs, and refactoring existing codebase to enhance code quality and long-term maintainability for a high-volume system
- Developed comprehensive testing suites with **JUnit** and **Jest**, using modern abstractions to achieve robust test coverage and improve long-term code stability for the updated dashboard

Information Security Intern

Aug. 2024 – Present

UVA Security Operations Center

Charlottesville, VA

- Architected a **Python automation** script integrating ServiceNow and Splunk APIs to streamline security incident remediation and reduce manual triage time
- Analyzed and triaged over 500 security incidents in **ServiceNow** and **Splunk**, enhancing threat detection capabilities by identifying key patterns in log data and correlating events

Intro to Computer Science Teaching Assistant

Sept. 2023 – Present

University of Virginia CS Department

Charlottesville, VA

- Lead and coordinate a team of six Teaching Assistants in weekly lab sessions for 85 students, designing targeted review activities to strengthen understanding and exam performance
- Conducted weekly office hours to provide one-on-one and small group mentorship, clarifying complex lecture concepts to improve student comprehension and exam preparation

Undergraduate Researcher

Feb. 2024 – Aug. 2024

DART Lab University of Virginia

Charlottesville, VA

- Engineered **provenance graphing software** for VR-based cyber-security threat analysis, leveraging **JavaScript**, **D3**, and **ElasticSearch** to create dynamic and interactive visualization
- Enhanced UI/UX for the threat mapping interface, improving speed and usability of analysis workflows

PROJECTS

StopBullying.AI

- Built a classifier using transformer-based models, fine-tuning **Google BERT** to identify harmful content (religion, age, ethnicity, gender) in online conversations
- Achieved 90% accuracy, leveraging a **confusion matrix** to systematically reduce misclassifications by 17%

Project Management Application

- Led an **agile** team of 5 engineers in the development of a full-stack project management tool, leveraging **Django** and **AWS S3** buckets for storage, via CI/CD pipelines with GitHub Actions
- Engineered the database schema, and implemented core features including project creation, task assignment, file sharing, and scheduling

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, SQL, HTML/CSS, R

Frameworks & Libraries: React, Node.js, Django, JUnit, Pandas, NumPy

Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Heroku

Certifications: AWS Cloud Practitioner