

Vasundhara Gatne

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EDUCATION

Virginia Tech Blacksburg, VA
M.S. in Computer Science, GPA: 3.83 Aug. 2024 – May 2026

Virginia Tech
B.S. in Computer Science, Minor in Mathematics, GPA: 3.63 Aug. 2021 – May 2025

Relevant Coursework: Software Design/Data Structures, Machine Learning, Data Analytics/Visualization

PROFESSIONAL EXPERIENCE

Software Development Engineer Intern May 2025 – Aug. 2025
Amazon New York, NY

- Designed and implemented a RAG data pipeline integrating Amazon S3, Redshift, and AWS Lambda to dynamically update AI agent knowledge bases for campaign, traffic, and budget data
- Developed and deployed a Slack-integrated AI assistant using AWS Bedrock, API Gateway, and DynamoDB to streamline campaign performance insights
- Built robust error-handling, deduplication, and performance testing mechanisms, overall reducing manual monitoring time by 20–30 minutes daily for on-call engineers

Software Engineering Intern Jun. 2024 – Aug. 2024
Booz Allen Hamilton McLean, VA

- Developed a full-stack application using Django and React, integrating OpenAI's API and LangChain to enhance NLP capabilities through prompt engineering techniques
- Collaborated with a cross-functional team to design and deliver a synthetic data generation application, enabling users to request, refine, and access customized datasets for diverse use cases

Data Science Intern Jun. 2023 – Aug. 2023
Carnegie Institution for Science Washington, DC

- Implemented machine learning models in R leveraging data mining techniques (association analysis) to characterize objects in multi-dimensional planetary datasets
- First author on research paper that published algorithm's results and predictions; Received third place for university ICTAS Critical Technology Award
- Presented findings at the American Geophysical Union (AGU) Fall 2023 conference in San Francisco, CA and the 245th American Astronomical Society (AAS) Meeting in National Harbor, MD

Student Researcher Jan. 2023 – May 2023
Hume Center for National Security and Technology Blacksburg, VA

- Developed backend applications and hardware demonstration tools using C and Python, enhancing the efficiency and reliability of system prototypes.
- Collaborated with local schools to gather feedback and refine interactive physics modules, creating more accessible and engaging learning content

LEADERSHIP & CAMPUS INVOLVEMENT

Mentor Liaison, Hypatia Engineering Living Learning Community Aug. 2021 – May 2025

- Facilitated and managed the operational aspects of engineering mentoring program
- Worked on the Outreach Committee to organize engaging engineering activities for K-12 students
- Directly mentored a dedicated group of students to offer guidance and support within the community

BAE Systems Women in Technology (WIT) Program Jan. 2021 – Mar. 2021

- Selected among 17 students from my district for this leadership program that provides mentorship female students
- Gained hands-on exposure to engineering disciplines and enhanced professional skills through various workshops

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, C/C++, R, HTML/CSS, JavaScript, SQL, x86, RISC-V, MATLAB
Frameworks/Tools: Git, AWS CDK, Django, React, Flask, IntelliJ, Eclipse, Visual Studio, Jupyter Notebook
Libraries: OpenAI API, pandas, NumPy, LangChain, scikit-learn, JUnit, arules, tidyverse, dplyr, ggplot2, plotly