

# Vasundhara Gatne

(571) 778-7665 | [vgatne@vt.edu](mailto:vgatne@vt.edu) | [linkedin.com/in/vgatne](https://www.linkedin.com/in/vgatne) | [v-gatne.github.io](https://v-gatne.github.io)

## EDUCATION

Virginia Tech	Blacksburg, VA
<i>M.S. in Computer Science, GPA: 3.88</i>	<i>Aug. 2024 – May 2026</i>
Virginia Tech	
<i>B.S. in Computer Science, Minor in Mathematics, GPA: 3.63</i>	<i>Aug. 2021 – May 2025</i>
Relevant Coursework: Software Design/Data Structures, Machine Learning, Natural Language Processing	

## PROFESSIONAL EXPERIENCE

<b>Software Development Engineer Intern</b>	May 2025 – Aug. 2025
<i>Amazon</i>	<i>New York, NY</i>
<ul style="list-style-type: none"><li>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</li><li>Developed and deployed a Slack-integrated AI assistant using AWS Bedrock, API Gateway, and DynamoDB to streamline campaign performance insights</li><li>Built robust error-handling, deduplication, and performance testing mechanisms, overall reducing manual monitoring time by 20–30 minutes daily for on-call engineers</li></ul>	
<b>Graduate Research Assistant</b>	Jan. 2025 – Present
<i>Virginia Tech   Department of Computer Science</i>	<i>Blacksburg, VA</i>
<ul style="list-style-type: none"><li>Developed and deployed a full-stack web application for LLM evaluation research using React, Django REST Framework, and PostgreSQL, containerized with Docker and orchestrated on Kubernetes</li><li>Built scalable ETL pipelines for processing large-scale LLM output datasets with automated data ingestion workflows and real-time analytics dashboards</li><li>Collaborated closely with virologists and domain experts to design AI-driven workflows for scientific information extraction from biomedical literature to support analysis of zoonotic mutations in viral protein sequences</li></ul>	
<b>Software Engineering Intern</b>	Jun. 2024 – Aug. 2024
<i>Booz Allen Hamilton</i>	<i>McLean, VA</i>
<ul style="list-style-type: none"><li>Developed a full-stack web application using React and Django REST Framework, integrating OpenAI's API and LangChain to enhance NLP functionality through structured prompt engineering</li><li>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</li></ul>	
<b>Data Science Intern</b>	Jun. 2023 – Aug. 2023
<i>Carnegie Science</i>	<i>Washington, DC</i>
<ul style="list-style-type: none"><li>Implemented machine learning models in R leveraging data mining techniques (association analysis) to characterize objects in multi-dimensional planetary datasets</li><li>First author on research paper that published algorithm's results and predictions; Received third place for university ICTAS Critical Technology Award</li><li>Presented findings at American Geophysical Union Conference and American Astronomical Society Meeting</li></ul>	

## LEADERSHIP & CAMPUS INVOLVEMENT

<b>Grace Hopper Scholarship Recipient</b>	Nov. 2025
<ul style="list-style-type: none"><li>Selected as 1 of 10 students to represent university at a global technology conference focused on women in computing</li><li>Engaged with industry leaders through technical sessions, recruiting events, and professional networking</li></ul>	
<b>Mentor Liaison, Hypatia Engineering Living Learning Community</b>	Aug. 2021 – May 2025
<ul style="list-style-type: none"><li>Led operations for engineering mentoring program, overseeing a network of mentors and supporting 60-75 mentees</li><li>Designed and delivered professional development, social programming, and K-12 engineering outreach initiatives</li></ul>	

## TECHNICAL SKILLS

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