

Vasundhara Gatne

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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

Software Development Engineer Intern <i>Amazon</i>	May 2025 – Aug. 2025 New York, NY
<ul style="list-style-type: none">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 dataDeveloped and deployed a Slack-integrated AI assistant using AWS Bedrock, API Gateway, and DynamoDB to streamline campaign performance insightsBuilt robust error-handling, deduplication, and performance testing mechanisms, overall reducing manual monitoring time by 20–30 minutes daily for on-call engineers	
Graduate Research Assistant <i>Virginia Tech Department of Computer Science</i>	Jan. 2025 – Present Blacksburg, VA
<ul style="list-style-type: none">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 KubernetesBuilt scalable ETL pipelines for processing large-scale LLM output datasets with automated data ingestion workflows and real-time analytics dashboardsCollaborated 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	
Software Engineering Intern <i>Booz Allen Hamilton</i>	Jun. 2024 – Aug. 2024 McLean, VA
<ul style="list-style-type: none">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 engineeringCollaborated 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 <i>Carnegie Science</i>	Jun. 2023 – Aug. 2023 Washington, DC
<ul style="list-style-type: none">Implemented machine learning models in R leveraging data mining techniques (association analysis) to characterize objects in multi-dimensional planetary datasetsFirst author on research paper that published algorithm's results and predictions; Received third place for university ICTAS Critical Technology AwardPresented findings at American Geophysical Union Conference and American Astronomical Society Meeting	

LEADERSHIP & CAMPUS INVOLVEMENT

Grace Hopper Scholarship Recipient	Nov. 2025
<ul style="list-style-type: none">Selected as 1 of 10 students to represent university at a global technology conference focused on women in computingEngaged with industry leaders through technical sessions, recruiting events, and professional networking	
Mentor Liaison, Hypatia Engineering Living Learning Community	Aug. 2021 – May 2025

- Led operations for engineering mentoring program, overseeing a network of mentors and supporting 60-75 mentees
- Designed and delivered professional development, social programming, and K-12 engineering outreach initiatives

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