Vasundhara Gatne

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Education

Virginia Tech — Blacksburg, VA
M.S. in Computer Science — *Aug. 2024 – May. 2026*

Virginia Tech
B.S. in Computer Science, Minor in Mathematics — *Aug. 2021 – May. 2025*

Current GPA: 3.6

Relevant Coursework: Software Design/Data Structures, Data Analytics/Visualization, Computer Systems

Professional Experience

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

- Developed a full stack application with Django and React frameworks, incorporated OpenAI's API
- Collaborated with a team to create a synthetic data generation app, enabling users to request, refine, and access tailored datasets
- Engaged with stakeholders to gather and analyze requirements, ensuring software solutions met varied needs
- Developed and delivered a final presentation, showcasing project outcomes and technical achievement

Data Science Intern — Jun. 2023 – May 2024
Carnegie Institution for Science | Earth and Planets Laboratory — *Washington, DC*

- Utilized machine learning techniques (association analysis) with R and Python to develop an approach for characterizing objects based on multi-dimensional data
- First author on research paper that published algorithm's results and predictions
- Invited and presented research findings at American Geophysical Union Fall '23 conference; Received third place for university ICTAS Critical Technology Award

Student Researcher, Wave Physics & Music Theory — Jan. 2023 – May 2023
Hume Center for National Security and Technology — *Blacksburg, VA*

- Research team used C and Python in building backend applications and hardware demonstration tools
- Collaborated with local schools to gather feedback and refine interactive physics modules for developing accessible and engaging content

Student Researcher, Non-Verbal Driver Communication System — Aug. 2022 – May 2023
Virginia Tech — *Blacksburg, VA*

- Team developed an alternative car horn system that increased the communication capacity of drivers
- Major tasks included designing hardware, analyzing data, and coordinating human factors research

Leadership & Campus Involvement

Mentor Liaison, Hypatia Engineering Living Learning Community — Aug. 2021 – Present

- Currently facilitates and oversees 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

Women's Preview Weekend Planning Committee — Jan. 2022 – Present

- Organized and coordinated a significant event designed to encourage prospective female engineering students
- Managed internal operations and logistics, facilitating meaningful connections and informative experiences

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

- Was selected among 17 students from my district for this leadership program that empowers and mentors female students in pursuing technical careers
- Gained hands-on exposure to engineering disciplines and enhanced professional skills through various workshops

Technical Skills

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