

Sonia M. Jethwani

qq6ab@virginia.edu | 703-675-5524 | <https://soniamjethwani.vercel.app/>

EDUCATION

University of Virginia, Charlottesville, VA

B.S Computer Science, B.A Economics

Aug 2021 – May 2025

- **GPA:** 3.6
 - **Clubs:** WICS, Sharaara Competitive Dance Team, Competitive Badminton Team, Undergraduate Women In Law, Running Club, Phi Alpha Delta, PIRGs Campus Action Program, Second Year Council
 - **Coursework:** Data Structures, Beg. and Adv. Software Development, Machine Learning, Cybersecurity, Software Testing, Digital Logic Design, Computer Systems and Organization I and II, Discrete Mathematics, Probability, Statistics, Linear Algebra, Multivariable Calculus
- Tests:** SAT: 1530 (730 R&W, 800 M) | SAT Mathematics Level 2: 800
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TECHNICAL SKILLS

- **Skills:** Backend Development, Full-Stack Development, Scrum, Test Driven Development, Git, Continuous Integration, Object-Oriented Programming, Data Structures and Algorithms, Data Visualization
 - **Languages/Frameworks:** Python, JavaScript, C/C++, SQL, JSON, Java, Node.js, Next.js, Typescript, React, Django, Swift, HTML, CSS, Matlab
 - **Certifications:** Oracle Certified Associate (Java SE 8 Programmer)
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EXPERIENCE

M.C. Dean

Tysons Corner, VA

Techology and Engineering Intern

Summer 2022

- Created an application using Optical Character Recognition to interpret and transfer tags on one-line documents to an Excel Sheet
- Served as **Lead Engineer** for 3 projects with companies: **Proctor and Gamble, Meta, QTS (Microsoft)** – design experience with AutoCAD, SKM, ETAP, AGI/ElumTools, and more

University of Virginia

Charlottesville, VA

Undergraduate Teaching Assistant – Data Structures and Algorithms I, Linear Algebra, Calculus II

Aug 2022-Present

- Held office hours, graded assignments, and collaborated with professors in creating class material

Academy of Science

Charlottesville, VA

Lead Researcher

2019-2021

- Led a team of 10 in developing a more efficient version of DARPA's disaster robot - created a decentralized miniature robotic swarm capable of mapping a disaster site using lidar maps and Simultaneous Localization and Mapping algorithms
 - Developed using C, HectorSLAM, Arduinos, RaspberryPi's, lidar sensors, Robot Operating Systems (ROS)
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PROJECTS

UVA Schedule Advisor

Charlottesville, VA

Scrum Master

Spring 2023

- Led a team of 5 to revitalize the UVA Student Information System
- Website has user profiles, calendar system, RESTful framework (persistent data), database allowing communication between Advisor and Student (Advisee)
- PostgreSQL, Python, Django, HTML/CSS (Bootstrap), Scrum

FakeSnake Fake News Detector

Spring 2022

- Created a Google Chrome Extension that detects fake/biased news by performing sentimental analysis on articles that appear in a Google Search
- Submitted in 2022 HooHacks Hackathon and received the 2nd place Google Cloud Award
- Python, Sentimental Analysis, pandas, NumPy, sklearn, spaCy, Google Cloud, HTML

Personal AI Tutor for UVA Students (in progress)

Present

- AI-powered chatbot using OpenAI API to assist students with schoolwork instead of asking professors and TA's, who are usually outnumbered