

Dhruv Varshney

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Passionate Computer Science student eagerly seeking opportunities to enhance my practical experience

Education

Virginia Tech – Blacksburg, VA

Bachelor of Science, Computer Science, Junior – President's List, Dean's List (F 22, S23)

Expected May 2025

GPA – 3.75

Relevant Courses

- Cloud Software Development, Android Mobile Software Development (Kotlin), Intro to Computer Organization (C), Intro to Software Design (Java), Data Structures and Algorithms (Java), Intro to Problem Solving in CS.

Computer Science Experience

Undergraduate Research Assistant | LEWAS Lab, Virginia Tech | March 2024 - Present

- Support NSF-funded inter disciplinary project by providing essential watershed data to research projects and others
- Maintain Ubuntu server, manage Apache2 web server and MySQL database to host and run different websites.
- Effectively manage sensors and maintain the live website for seamless real-time data access and user interaction.
- Collaborate with professors and PhD students to implement website features and data visualization tools.

Software Engineer Intern | A Round Entertainment | January 2024 – March 2024

- Proficiently implementing the application using React Native, Expo, and Firebase technologies.
- Utilized web scraping with Beautiful Soup to gather data for the company's research initiatives.

Bytes | Hackathon (HooHacks), University of Virginia – March 2024

- Developed a React Native-based news application featuring infinite scrolling for both global and college news.
- Created a React-based web app for college administrators to post news, utilizing PropelAuth for authentication.
- Utilized MongoDB for college news storage, integrated NewsAPI for global news sourcing, cloudinary to store images.
- **Winner**- Best Accessibility & Empowerment (Prize Track by University of Virginia)

Stonks Simulator | Hackathon (VTHacks), Virginia Tech – September 2023

- Streamlined Stock Market Simulator with Python and Streamlit for risk-free student trading education.
- Implemented real-time stock data retrieval, user portfolios with Beautiful Soup, Auth0, and MongoDB.
- **Winner** - Capital One: Best Financial Hack, **Winner** – Major League Hacking: Auth0 - Best Use of Auth0

InstaShop | Hackathon (HackHarvard), Harvard University – October 2023

- Revolutionized grocery shopping with an app that navigates through Target store, using their API for item locations, and a custom algorithm reducing item retrieval time to seconds, enhancing shopping experience.
- Developed with a blend of React, Python, JavaScript, TypeScript creating a seamless and efficient user interface.

Rhythm and Rise | Hackathon (HackViolet), Virginia Tech – February 2024

- Designed for women, this MERN stack app guides through menstrual phases, suggesting exercises and food for each phase along with affirmations to promote strength.
- With user authentication, it offers a 28-day cycle visualization for personalized user experience utilizing a backend
- **Winner** – Best Webhack Using React (Sponsored by Peraton)

VT Marketplace (MERN stack, Web App) | December 2023

- Engineered a dynamic MERN stack web app for college students to buy and sell supplies.
- Implemented advanced features like filtering, sorting, direct seller contact, and seamless item uploads.
- Ensured a personalized user experience with middleware, and comprehensive user features.

Work and Leadership Experience

- **Undergraduate Teaching Assistant** (Department of Engineering Education, Virginia Tech) | August 2023 – Present
- **Residential Well-Being Student Leader** (Innovate LLC, CID, Virginia Tech) | August 2023 – May 2024
- **Mathematics Grader** (Department of Mathematics, Virginia Tech) | August 2023 – May 2024
- **Mathematics Tutor** (Department of Mathematics, Virginia Tech) | August 2023 – March 2024

Programming Languages and Skills

- C, CSS, HTML, Java, JavaScript, Kotlin, Linux, Python, Typescript; MySQL, Apache HTTP Server, Ubuntu Server
- Auth0, APIs, Expo, Firebase, GitHub, MATLAB, MongoDB, Node.js, PropelAuth, React Native, React.js, Streamlit

Club Participation

- Member, Cyber Security Club VT | September 2022 – Present, Member, GDSC VT | October 2022 – Present
- Events Team, Hindu Yuva VT | April 2023 - Present

Interests

- Enthusiastic about the fast-paced and exhilarating world of Ping Pong
- Local Guide, Google Maps (212k+ contribution views, 162k+ photo views, top 10% restaurant reviewers)