

# Varun Madan

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## EDUCATION

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### Stanford University

Sept. 2022 – Jun. 2026

*Bachelor of Science in Computer Science*

*GPA: 3.8*

- **Relevant Courses:** Programming Abstractions (Python), Data Structures and Algorithms (C++), Computer Organization and Systems (C), Introduction to Probability for Computer Scientists (Python), Mathematical Foundations of Computing, Linear Algebra and Multivariable Calculus

## EXPERIENCE

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### Data Science Intern

Jun. 2023 – Sept. 2023

*Altai Capital*

*Newport Beach, CA*

- Conducted research and [data analysis in R](#) on hundreds of recycling centers and their capacity/materials processed in four prominent Western countries (Germany, Canada, United Kingdom, and France) for the firm's CEO.
- Added existing plastic sortation data in Germany for each recycling center to my map that was then used to aid the company's investment in Digimarc's proprietary digital watermark-based sortation technology.

### Website Development Team Lead

Jun. 2023 – Sept. 2023

*The Carbon Company*

*Remote/San Francisco, CA*

- In charge of developing a [website](#) that reached 15,000 visitors for this climate tech startup. Built multiple landing pages, integrated with services such as Firebase, and constantly updated JavaScript/CSS to troubleshoot bugs.
- Created multiple email automations in Mailchimp using advanced conditional logic that is customized for members when they sign up and indicate how they want to get involved with the company's mission.

### Research & Development Engineering Intern

Jun. 2022 – Aug. 2022

*SIMETRI*

*Orlando, FL*

- Developed and tested numerous augmented reality simulations with Unity in a modular medical environment to mimic healthcare simulations on the battlefield.
- Led a robust cost-benefit analysis of new scanning technologies by negotiating with manufacturers on behalf of the engineering department, which ultimately helped decrease excess company spending by over \$10,000.

## PROJECTS

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### Vintave | *PyTorch, Python, React, SQL*

Jan. 2023 – Sept. 2023

- Built a computer-vision-based authentication and quality assurance software to provide over 150 avid shoppers with high-quality used handbags from 10+ local shops that lack an online presence around the Bay Area.
- Accepted to the Stanford Design School's Launchpad 13 cohort as well as the Stanford Doerr School's Hacking for Climate and Sustainability, two of the most selective accelerator-based classes on campus.

### BeemunityAI | *Python, TensorFlow, R, Keras, Scikit-learn*

Aug. 2017 – Sept. 2022

- Developed a probiotic mixture treatment and a novel multiple linear regression model in collaboration with the University of Florida to optimize honeybee gut immunity against numerous external stressors.
- Awards/Honors: European Union Contest for Young Scientists Award Winner, 2-time Regeneron ISEF 1st Place Winner, Minor Planet Naming, National Science Talent Search Scholar, 5-time Florida Regional Grand Champion.

## LEADERSHIP AND VOLUNTEERING

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- **Founder/Lead of Google Developer Student Clubs @ Stanford:** Developer group of 50 students on campus.
- **Teaching Fellow for CS 105, Introduction to Computers:** Stanford course for Title I High Schools nationally.
- **Founder/CEO of Everyone Deserves STEM:** Nonprofit providing scientific education to 1,500 children globally.

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, C, C++, SQL, R, Java, HTML, CSS

**Frameworks:** React.js, React Native, Node.js, Express.js, Flask, PyTorch, WordPress

**Developer Tools:** Git, Google Cloud Platform, VS Code, Visual Studio, IntelliJ, Eclipse, Qt Creator

**Libraries:** NumPy, Matplotlib, Scikit-learn, pandas