

Vivek Khimani



Education

Drexel University | Pennoni Honors College | BS in Computer Science, 2023 | GPA 3.95

Relevant Courses : Calculus I, II, III • Linear Algebra • Multivariate Calculus • Intro to Comp Sci • Computer Programming I, II • Computing and Informatics I, II

Stanford University | Pre-Collegiate Summer | Knot Theory (Mathematics) | June-July, 2016

Admitted with a **full-ride scholarship** of 6500 USD.

Software Projects and Research

Flu – Tracker • Frontend and Business Designer | **Python, JavaScript, HTML5, CSS, Bootstrap**

- **Design** a web-based interface to keep a track of active influenza cases and display relevant statistics for the user using **Agile Software Development** method.
- **Hosted** the complete website on .com domain using the **FileZilla** software. Visit <https://flu-finder.com>
- **Implement** weekly **data extraction** from CDC using the CDC **Soda API**
- **Display** the statistics from the relevant locations on a color-coded map using **Google Maps API**
- **Develop** a **business plan**, collect funds, and market the final product using physical and online methods.

Apollo Guidance Computer • Drexel University Research • Dr Brian L Stuart | **LaTeX**

- **Explained** the Apollo Guidance **architecture** and **software** and compared it to the modern-day computers. Visit <https://www.cs.drexel.edu/~vck29/ApolloResearchWebpage.html>
- **Planning** an extended research with the faculty on **History of Computer Software**.

Cubesat Interplanetary Optical Navigation | **Bootstrap, CSS, JavaScript, HTML5, Python**

- **Individually designed, developed, and hosted** the complete website for the project **overnight**.
- **Derived** the math algorithm for the distance calculation of the cubesat from unknown planetary bodies.
- Check <https://cubesat-ion.com>.

Medi Freeze | **Leadership, Innovation**

- **Founder and Team Leader**.
- **Designed** a travel-friendly medical device for storage and cooling of temperature-specific medical products using Peltier effect. Visit medifreeze.weebly.com

Text-Based Railway Management | **Java OOP**

- **Project Manager and Developer**.
- **Developed** the ticket booking, inquiry, cancellations, and station maintenance sections. See [GitHub Repo](#)

Experiences

Mathematics and Computer Science Society • Vice – President | **Leadership, Management**

- **Planning** an Apollo Guidance Computer Talk based on my research paper with the faculty.
- **Organized** an Open-Source Software, Cigna Health Care Tech Talk, Introduction to Comp Sci course review for interested members.
- **Update** the organization website as per the needs and **manage** the event forms, facilities, and funds.

Relevant Certifications

- Introduction to Python, Microsoft, edx Online, 2018
- Computing in Python II (Control Structures), III (Data Structures), IV (Objects and Algorithms), Georgia Tech, edx Online, 2018
- Equity Stock Markets: Concepts, Instruments, Risk, and Derivatives, IIM Bangalore, edx Online, 2018

Honors and Awards

- Founder's Scholarship, Drexel Grant, Dean's List, Drexel University, 2018 – 2023
- Student Of The Year, High School, Class of 2018

Professional Affiliations

- Drexel CyberDragons Computing Security Club
- ACM Student Member