# Manjot Singh

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## Education

**University of California, Irvine** *Sep. 2021- June 2025*

B.S in Computer Science | GPA: 3.33 | Regents Scholar | Class of 2025

**Relevant Coursework**

Data Structures, Algorithms, Python, C++/C, Java, Information Retrieval, Software Design, Discrete Mathematics, Software Libraries, Linear Algebra, Statistics, Assembly, Software Engineering, Search Engines

## Personal Projects

**Grosearch** | Python, Selenium, Flask, HTML, CSS, JS, Rest APIs, Postman *Sep. 2022 - Nov. 2022*
- Developed a full-stack application with Flask, Selenium, and REST APIs displaying products from several grocers via a singular search **reducing time** from **120 seconds** when searched individually to **48 seconds**
- Built web page for side-by-side product comparison across **4 popular grocers** with HTML, CSS, and JS
- Designed application for budgeting, automatically finds and **lowest priced** products

**CarTelligence** | Python, Pytorch, Django, HTML, CSS *June 2023 - Aug. 2023*
- Developed a full-stack application using Django and Pytorch for classifying images of vehicles by make, model, and year by training a ResNet-50 model on **16,185 images**, and **196 car classes** with **80% validation accuracy**
- Built front-end using HTML, CSS, and JS for both mobile and desktop and deployed using Railway

**Medisee** | Python, Tkinter, FDA API *June 2023 - July 2023*
- Developed a GUI using Tkinter that visualizes on average over **5,000 cases** of adverse effects on queried medications by utilizing FDA API helping improve accessibility and transparency of information

**Walmartify** | Python, Postman, Eclipse, TomTom API, XLSXwriter, Postman, Geocoding *June 2022 - July 2022*
- Developed a back-end application that searches local Walmarts within a **50 mile radius** via geocoding and displays over **300 products** on average per query within spreadsheets for price and inventory comparison across stores using XLSX Writer.
- Utilized Postman to tailor custom API requests to adhere to Walmart scraping policies

## Technical Skills

**Languages:** Python, C++/ C, Java, HTML, CSS, Javascript
**Frameworks:** Flask, Django
**Tools:** Git, Postman, MemTest86, CrystalDiskMark, VMware
**Libraries:** Selenium, Pytorch (ResNet-50, VGG-16), XlsxWriter, BeautifulSoup, Matplotlib, NumPy

## Awards/Certifications

**Antrepreneur Mental Health Hackathon** *May 2022*

Awarded $1000 for pitching ZotMe, an application that would remove toxic features from social media to improve mental health.

**CyberPatriot Platinum Tier** *May 2021*

Secured compromised machines by implementing enterprise protocols, and settings while removing threats such as viruses, and files not within company compliance (Linux/Windows/Servers).

**CompTIA Security+ Certification** *April 2021*