

# Manjot Singh

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## Education

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### University of California, Irvine

Sep. 2021- June 2025

B.S in Computer Science | GPA: 3.5 | 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

## Personal Projects

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### 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 **2,000 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 Walmarks within a **15-mile radius** via geocoding and displays prices and inventory of **500+ products** within a spreadsheet for comparison across stores using XlsxWriter.
- Utilized Postman to tailor custom API requests to adhere to Walmart scraping policies

## Technical Skills

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**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

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### Entrepreneur 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