

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, TomTom API, XLSXwriter, Postman, Geocoding

June 2022 - July 2022

- Developed a back-end application that searches local Walmarks 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

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