ABRAHAM BHATTI

Undergraduate Computer Science and Engineering Student Proficient in: C, Python, Java, Computer Vision, Machine Learning, React

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WORK EXPERIENCE

Elytra Robotics

Software Engineer Intern 02/2025-08/2025

- Developed and optimized AI-driven rovers for cost-effective waste management, leveraging machine learning to solve practical, real-world challenges. Also collaborated with cross-functional teams to integrate software solutions with rover hardware, enhancing real-time decision-making and operational efficiency.
- Assisted in coding and testing software features while using web scrapers to identify and reach potential customers, bridging technical development and marketing efforts.

Santa Clara University

AI and Software Engineering Research Intern June 2025 - Present

- Working closely with the head of Computer Science and Engineering at SCU. Creating an AI powered app that allows students of diverse languages access to personalized, visual, and easily accessible learning plans.
- Documenting every step and decision along the way to track our progress.

Morgan Hill Psychiatry

Remote Office & Tech Support Specialist 05/2020-2024

- Completed remote tasks such as typing dictations, organizing documents, and scheduling appointments with patients.Also built and maintained a simple website for patients to navigate.
- Developed necessary skills such as organization, time management, and communication in a new environment.

EDUCATION

PROJECT

SnackBuddy Summer 2025

- Developing an AI powered Allergy tool that allows users to scan the barcode of any snack, detecting the presence of specific allergens/ingredients based on their input.
- Utilizing barcode and translation APIs combined with an AI model that allows optimal, safer results.
- Targeted towards people who love to travel and are restricted by unclear ingredient labels and language barriers.
- Inspired by my own personal experiences as someone who travels and has allergies. I wish to pursue this project in the long run to help others avoid the risk and danger of allergy attacks on vacation.

Amber Search AI 11/2024

- Developed an AI-powered system to analyze traffic camera footage for Amber Alerts as part of a three-person team in the 2024 INRIX x AWS Hackathon.
- Implemented computer vision to match vehicle make, model, and color to alert descriptions.
- Built a front-end interface for manual input and processed images using Claude AI and AWS tools.
- Placed 11th out of 30 teams, reaching the finalist stage and demonstrating AI's potential to enhance public safety and law enforcement response times.

Ember Alert 02/2025

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During Hack for Humanity' 2025, we developed a wildfire prediction algorithm using Python and Google Earth Engine to analyze temperature, humidity, wind patterns, soil conditions, and other environmental factors.

- Built a front-end interface to visualize data, displaying an interactive map of the top ten at-risk locations.
- Explored future applications by designing hypothetical drone paths for proactive forest maintenance.
- Validated the algorithm using data from the 2020 Glass Fire, successfully identifying fire-prone areas and demonstrating its potential for real-world use.

Personal Website 202425ACM Winter Challenge

- Created a personal website to showcase projects, work experience, and other relevant information to highlight my programming skills.
- Using React, I began developing the basics of HTML/CSS and continue to strengthen my knowledge of front-end development as I regularly update my website.

SKILLS