SAVY DHILLON

415-465-4095 | savidsav99@gmail.com | www.linkedin.com/in/savjot-dhillon | https://dsav99.github.io/

OBJECTIVE

Aspiring Computer Science graduate with industry experience, targeting entry-level roles in Software Development, Data Analysis, and AI Engineering to contribute to technological innovation.

EDUCATION

San Francisco State University (SFSU), San Francisco, CA   Aug 2018 - May 2024
B.S. in Computer Science

Udacity   Jan 2024 - Apr 2024
Nanodegree in Artificial Intelligence for Trading

WORK EXPERIENCE

Applied Materials, Santa Clara, CA
Image and Data Analysis Engineer Intern   Jun 2023 - May 2024

- Developed a real-time video monitoring system, reducing manual inspections by 75% using YOLO for object detection and OpenCV, significantly enhancing operational efficiency in manufacturing.
- Boosted manufacturing efficiency and accuracy by 90% with a custom Python Deep Learning model for real-time video feed analysis, improving quality control and minimizing defects.
- Engineered a Python-based alert system, achieving 100% machine failure prevention by integrating with CNC machinery for predictive maintenance, eliminating unscheduled downtime.
- Played a key role in defect inspection enhancement by integrating Python-trained machine learning models into a C# application, showcasing expertise in cross-technology integration to enhance efficiency.
- Provided process analytics, improving operational insight and yield using Python for advanced data analysis, supporting data-driven decision-making.
- Automated routine tasks, saving 40 staff hours weekly with Python scripts, increasing productivity and reducing manual workload.
- Conducted ongoing research into the latest developments in the field, integrating cutting-edge methodologies and technologies into our processes to continually enhance our model's performance and efficiency.

SF Hacks, San Francisco, CA
Software Developer   Oct 2022 - Dec 2022

- Elevated user experience on the SF Hacks website, by implementing responsive design principles and optimizing performance, resulting in a 30% increase in user engagement, using HTML5, CSS3, and JavaScript.
- Collaborated with designers to maintain up-to-the-minute website accuracy, ensuring the integration of real-time updates and event information.
- Organized a successful 3-day hackathon at SFSU, accommodating 200+ Bay Area hackers, streamlining logistics to enhance participant experience.

PERSONAL PROJECTS

Billing Web Application

- Streamlined local business billing for small to medium customer bases.
- Reduced manual workload by 90% through automated data storage and management.
- Adapted the application based on user feedback, enhancing overall functionality and user satisfaction.
- Integrated payment functionality for efficient and immediate transactions.
- Enhanced security with user authentication and email-based order management.

TECHNICAL SKILLS

- Programming: Python, C++, Java, JavaScript, Go, PyTorch, OpenCV, YOLO, Docker
- Web: HTML/CSS, React, Node.js, TypeScript, Next.js
- API and Database: RESTful API, MySQL, PostgreSQL, MongoDB, Redis

RELEVANT COURSEWORK

- Software Development
- Computer Vision
- Artificial Intelligence
- Operating Systems
- Data Structure and Algorithms
- Advanced Statistics and Probability