

SAVY DHILLON

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EDUCATION

San Francisco State University (SFSU), San Francisco, CA
B.S. in Computer Science

May 2024

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.
- Automated routine tasks, saving 40 staff hours weekly with Python scripts, increasing productivity and reducing manual workload.
- Provided process analytics, improving operational insight and yield using Python for advanced data analysis, supporting data-driven decision-making.
- 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 2023 - Dec 2023

- 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.

PROJECTS

Billing Web Application

- Streamlined billing process for local businesses dealing with low to medium number of customers.
- 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.
- Implemented robust user authentication and order management features enabling users to securely sign in and manage orders using their email and password.

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