Yash Goyal

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EDUCATION

University of California, Los Angeles Expected Graduation Date: Jun 2025
Bachelor of Science in Computer Science

RELEVANT COURSEWORK

Degree Courses: Data Structures and Algorithms, Computer Organization, Statistical Methods and Analysis

EXPERIENCE

Defence Science and Technology Agency Feb 2022 - Jun 2022
Software Engineering Intern Singapore

- Designed and implemented an automated Computer Vision pipeline for real-time drone detection and tracking.
- Streamlined the data-preprocessing workflow, reducing data preparation time by more than 50%.
- Significantly improved drone detection accuracy in challenging scenarios by 40% through the implementation of advanced transfer learning techniques and state-of-the-art models like YOLO.
- Optimized and deployed models on edge devices like the Jetson TX2, leveraging NVIDIA's DeepStream SDK to enable real-time drone detection in remote environments and reduce dependence on centralized computing resources.

Trilogy Technologies Nov 2021 - Jan 2022
Software Engineering Intern Singapore

- Spearheaded the software development for a novel air purifier project, from ideation to prototyping, seamlessly integrating diverse hardware components such as OLED screens, air quality sensors, lights, and fans.
- Collaborated with cross-functional teams to ensure seamless software-hardware communication and delivered a functional air purifier prototype.
- Worked closely with the Head of Engineering to refine product design and source electronic components from multiple suppliers, resulting in a well-engineered air purifier prototype that met project goals and exceeded performance expectations.

Singapore Armed Forces Jan 2020 - Oct 2021
Platoon Commander, Computer Network Operations Singapore

- Led a team of 40 soldiers in maintaining an operationally critical network, implementing proactive measures and resolving complex issues to improve network reliability and efficiency.
- Successfully led platoon in a Network Operations Command Center, acing a milestone readiness evaluation exercise.
- Conducted physical and operational training for 200 soldiers, enhancing operational readiness.
- Received early promotion to First Lieutenant out of over 15 officers for exemplary conduct and outstanding performance in my duties as Platoon Commander.

Netweb Technologies Nov 2017
Software Engineering Intern Singapore

- Developed an iOS mobile application prototype using Swift and Xcode to establish seamless communication with a Bluetooth device and display real-time motion data, providing critical insights to users.
- Designed website mock-ups for a new brand of products, showcasing exceptional design skills and contributing to the overall success of the website.

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Dart, Swift, JS | **Web Technologies:** Flutter, Django, React

Data Sci/ML: NumPy, Pandas, Matplotlib, Scikit-Learn, TF | **Miscellaneous:** Git, Unix, Linux/WSL, Docker

POSITIONS OF RESPONSIBILITY

Web Developer Intern, The Daily Bruin: 2023-Present
Developing and maintaining www.bruinwalk.com, utilizing React, Django and other web technologies.

Director of Service, On-Campus Housing Council: 2022-Present
Advocating for UCLA residents and organizing events to recognize and support them.

Operations Team, exploretech.la: 2022-Present
Overseeing logistics and operations for an annual event introducing high school students to technology.