

# Yash Goyal

 [github.com/yashgoyal41](https://github.com/yashgoyal41) |  [linkedin.com/in/yashgoyal01](https://www.linkedin.com/in/yashgoyal01) |  [yashgoyal@g.ucla.edu](mailto:yashgoyal@g.ucla.edu) |  +1(310)-625-0144

## EDUCATION

**University of California, Los Angeles**  
Bachelors of Science in Computer Science

Expected Graduation Date: Jun 2025

**Victoria Junior College, Singapore**  
Singapore-Cambridge GCE A-Level

Jan 2018 - Dec 2019  
7 Distinctions / GPA 4.0 Equivalent

## RELEVANT COURSEWORK

**Degree Courses (Jun 2023):** Intro to Computer Science, Computer Organization, Algorithms and Complexity, Discrete Math

## EXPERIENCE

**Defence Science and Technology Agency**  
Machine Learning and AI Intern

Feb 2022 - Jun 2022  
Singapore

- Developed an automated end-to end CV pipeline for object detection and tracking.
- Created and modularized a data-preprocessing workflow using various Python bindings and libraries.
- Utilized transfer learning techniques and models like YOLO, improving model performance in challenging cases by >40%.
- Optimized and deployed CV models on discrete GPUs and edge devices such as the NVIDIA Jetson TX2, leveraging on NVIDIA's Deepstream SDK.

**Trilogy Technologies**  
Software Engineering Intern

Nov 2021 - Jan 2022  
Singapore

- Developed software for embedded systems in C using the CCS C Compiler.
- Integrated various electronic components such as OLED screens, sensors and fans, utilizing various communication protocols like UART and SPI.
- Sourced electronic components and parts from multiple organizations and was involved in enhancing product design as part of the Research and Development Team.

**Singapore Armed Forces**  
C4I System Administrator Platoon Commander

Jan 2020 - Oct 2021  
Singapore

- Led >40 soldiers trained in computer networks to maintain an operationally critical network.
- Aced a milestone readiness evaluation exercise by leading my platoon in a Network Operations Command Center to monitor our network (using PRTG and Solarwinds) and troubleshoot faults.
- Planned and conducted operational and physical training for the company and battalion (>200 soldiers).
- Received early promotion to First Lieutenant out of >15 Officers for my exemplary conduct and performance.

**Netweb Technologies**  
IoT and Marketing Intern

Nov 2017  
Singapore

- Developed an iOS mobile application using Swift and Xcode to communicate with a Bluetooth device and visualize motion data to provide insights.
- Designed website mock-ups for a new brand of products which were eventually used for the actual website.

## TECHNICAL SKILLS

**Programming languages:** C, C++, Python, Dart, JS

**Web Technologies:** HTML, CSS, Flutter

**Data Science/ML:** Numpy, Pandas, Matplotlib, Scikit-learn, TF

**Miscellaneous:** Git, Unix, Linux/WSL,

## POSITIONS OF RESPONSIBILITY

**Director of Service, On-Campus Housing Council:**

2022-Present

Organized events to recognize individuals in the UCLA community and promote community service.

**Operations Team, exploretech.la:**

2022-Present

Managing logistics and running operations for an annual event to expose high school students technology.