

# Yash Goyal

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## 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

## EXPERIENCE

**Defence Science and Technology Agency**

Feb 2022 - Jun 2022

Software Engineering Intern

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**

Nov 2021 - Jan 2022

Software Engineering Intern

Singapore

- Developed software for embedded systems in C to build an air purifier from scratch.
- Integrated components such as OLED screens, sensors and fans, utilizing 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**

Jan 2020 - Oct 2021

Platoon Commander, Computer Network Operations

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**

Nov 2017

Software Engineering Intern

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, Swift, JS

**Web Technologies:** Flutter, Django, React

**Data Sci/ML:** numpy, pandas, matplotlib, scikit-learn, TF

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

## RELEVANT COURSEWORK

**Degree Courses (By Jun 2023):** Discrete Mathematics, Data Structures and Algorithms, Computer Organization

## EXTRACURRICULARS POSITIONS OF RESPONSIBILITY

**Web Developer Intern, The Daily Bruin:**

2023-Present

Developing and maintaining [www.bruinwalk.com](http://www.bruinwalk.com), UCLA's most popular course review website.

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

2022-Present

Organizing events to recognize UCLA residents and provide them with community service opportunities.

**Operations Team, exploretech.la:**

2022-Present

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