

# 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**  
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.

## PROJECTS

**Portfolio Website**  
Personal Project

[yashgoy41.github.io](https://github.com/yashgoy41)

- Developing a website using HTML, CSS and JS to share my skills, interests and experience.

## TECHNICAL SKILLS

**Programming languages:** C, C++, Python, Dart, JS  
**Data Science/ML:** Numpy, Pandas, Matplotlib, Scikit-learn, TF

**Web Technologies:** HTML, CSS, Flutter  
**Miscellaneous:** Git, Unix, Linux/WSL,

## RELEVANT COURSEWORK

**Degree Courses (by Jun 2023):**

Intro to CS, Intro to Computer Organization, Intro to Algorithms and Complexity, Intro to Discrete Structures

**Online Courses:**

Flutter Development Bootcamp, UMich Python For Everybody Specialisation, Cisco Certified Network Associate Training