Yash Goyal

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EDUCATION

University of California, Los Angeles — Expected Graduation Date: Jun 2026
Bachelors of Science in Computer Science

Victoria Junior College, Singapore — Jan 2018 - Dec 2019
Singapore-Cambridge GCE-A Levels — 7 Distinctions / GPA 4.0 Equivalent

EXPERIENCE

Defence Science and Technology Agency — Feb 2022 - Jun 2022
Machine Learning and AI Intern — Singapore

- Developed an automated end-to end CV pipeline for object detection and tracking.
- Created and modularized a data-prepossessing 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 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 — Jan 2020 - Oct 2021
C4I System Administrator Platoon Commander — 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
IoT and Marketing 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.

PROJECTS

Portfolio Website
Personal Project — yashgoy41.github.io

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

TECHNICAL SKILLS

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

Web Technologies: HTML, CSS, JS, 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