





Yash Goyal

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EDUCATION

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

Expected Graduation Date: Jun 2026

Victoria Junior College, Singapore
Singapore-Cambridge GCE-A Levels

Jan 2018 - Dec 2019
7 Distinctions / GPA 4.0 Equivalent

EXPERIENCE / PROJECTS

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.
- Leveraged NVIDIA's Deepstream SDK to achieve real-time inference for object detection and tracking at 30fps.

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.

SELECT PROJECTS

Portfolio Website
Personal Project

yashgoy41.github.io

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

Fitness Coaching App
Aristos Strategies, Singapore

- Developing an app using Flutter and Firebase that can enable coaches to create customized workouts, help clients log their sessions, and allow both to visualise client progress on a dashboard.

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