

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

RELEVANT COURSEWORK

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

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.