

Dylan Hoi

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EDUCATION

UNIVERSITY COLLEGE LONDON

BS IN COMPUTER SCIENCE

Sep 2019 - Sep 2022 | London, UK
DSTA Overseas Scholarship
UCL Data Science Web Master
UCL EUROBOT Software Architect
Partaking in advanced Deep Dive sessions by Dr Kevin Bryson

TEMASEK POLYTECHNIC

DIP. IN COMPUTER ENGINEERING

Apr 2014 - Apr 2017 | Singapore
TP Engineering Maker's Club Vice President
TP Student Ambassador
3rd out of 150 students, Dean's List, Scholar
Cum. GPA: 3.97/4.00

COURSEWORK

UNDERGRADUATE

(First Year Mods)

Principles of Programming
Algorithms
Object-Oriented Programming
Compilers + Practicum
Discrete Mathematics for Computer Scientists
IEP Minor: Intelligent Systems

DIPLOMA

(Distinctions in)

Object Oriented Programming(Java)
Microcontroller Technology
Programming(C++)
Database Management Systems and Design(SQL)
Web Design (ASP.NET, HTML5, CSS)
Engineering Math
Engineering Physics
Diploma Plus in Cross Cultural Studies
(Japanese, World Issues, Transnational Studies)

SKILLS

TECHNICAL SKILLS

Java • Python3 • C/C++ • Django
Bootstrap • CSS3 • HTML5 • MySQL
• Git • Linux • ROS2.0

SOFT SKILLS

Bilingual Communicator (English, Chinese, Japanese)
• Leader (SAF Sergeant) • Motivator

EXPERIENCE

SINGAPORE ARMED FORCES (SAF) | LOGISTICS SPECIALIST

Aug 2017 - Aug 2019 | Singapore

- Company Quartermaster of BMTC School 3's Wolf Company.
- Led a logistics team that oversaw the supplies, equipments and rations of 256 recruits.
- Identified areas for scalable logistical improvements in my company's online indentation system eIndent.

DEFENCE SCIENCE ORGANISATION | SOFTWARE ENGINEERING INTERN

Apr 2017 - Jul 2017 | Singapore

- Was a scholar for DSO, under the Robotics Anatomy Lab.
- Programmed a MEM-based Inertial Sensor, VN-300t using ROS2.0.
- Sensor optimised the calibration, localization and planning of self-driving vehicles.

WORLDSKILLS SINGAPORE | COMPETITIVE PROGRAMMER

Mar 2014 - Sep 2016 | Singapore

- Competed in the bi-annual national competition for Electronics in 2016.
- Underwent rigorous training in C++ 15 hours weekly, for 2 years.
- Manufactured PCBs using EAGLE software to solve a specific problem in the competition.

TECHNICAL AND BUSINESS PROJECTS

UCLDSS DATA HUB | WEB MASTER

Sep 2019 - Present | London, UK

- Helped design and maintain UCLDSS Data Hub using Django and Bootstrap.js.
- Constantly improving functionalities to aid in organising events.
- Data Hub has a steady growth and a peak visitor count of 100k/month.

UCL EUROBOT MACHINE VISION | SOFTWARE ARCHITECT

Sep 2019 - Present | London, UK

- Led the development of UCL EUROBOT's Machine Vision team.
- Implemented OpenCV and HSV Colour detection for distinctly coloured buoys and object detection in the arena.
- Organised weekly Scrum meetings and managed project goals on GitHub.

FACEBOOK MESSENGER BOT | BACKEND DEV

Sep 2019 - Present | London, UK

- Built and deployed an automated Messenger Bot that detects emotions in text during a 48-hour hackathon using PyTorch and Python.
- Optimized backend data sets using MIT Media Lab's DeepMoji algorithm.
- Deployed Messenger Bot using Heroku and Facebook webhooks.

REFUNDGIANT | STUDENT AMBASSADOR

Sep 2019 - Present | London, UK

- Worked in a team of 5 in a start-up focused on optimizing the VAT refund process for international tourists.
- Conducted market research, interviewed potential consumers and industry experts to aid in refining consumer value propositions.