

POH WEI PIN

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EDUCATION

National University of Singapore **Aug 21 - Present**

Bachelor of Engineering - Computer Engineering

- Highest Distinction (1st Class Honours)
- Dean's List AY22/23 S1
- Google's Developer Student Club (Internal Tech Associate) - Conducted a Machine Learning Workshop on Neural Network and CNN for over 50 NUS students and public on Zoom (Using Google Colab & Tensorflow).
- NUS Raffles Hall Residences (RH Developers) - Involved in the development of the Hall website and web app that caters to over 400+ residents using ReactJS and CSS.

Millennia Institute **Jan 16 - Jan 18**

Singapore-Cambridge A-Levels (Science)

- Top 10% of Student Cohort (2016, 2017 and 2018)
- Singapore HDB National Cool Ideas Competition (3rd Place) (Noise Monitoring System Prototype built using Arduino, Programmed with C++)

WORK EXPERIENCE

Software Engineering Intern, Motional **May 23 - Nov 23**

- Integrated eight critical vehicle components version retrieval services into AV deployment agent via UDS, HTTP, and Linux Popen in C++ for vehicle operators to automatically track firmware and software version compatibility.
- Enabled over-the-air firmware flashing for the Aurix vehicle component in the AV deployment stack on AWS, automating and eliminating the need for manual firmware updates by testing operators.
- Developed a custom logger in C++ offering custom log prefixes and severity to support multi-threaded UDS queries log in a much more readable way.
- Migrated AV deployment stack CI/CD Pipeline from Jenkins to GitLab with a 30% improvement in pipeline completion time.
- Implemented parallel software packages retrieval to AV deployment service, cutting down initial stack deployment time by half.

Software Engineering Intern, Autove Pte Ltd **May 22 - Aug 22**

- Building the company's responsive web application from scratch using Google's Flutter, Node.js, Telegram Bot, and Firebase.
- Integrated the application seamlessly to external delivery robot API with order status tracking improvements

PROJECTS

SuperCanvas - Chrome Extension **Mar 23 - Aug 23**

- Developed a productivity Chrome extension leveraging Canvas API aimed at improving students' experience in Canvas LMS with more than 200 active users to date
- The extension helps students to keep track of their assignment deadlines with automated completion tracking on the dashboard, color-coded deadlines countdown, and instant course files search feature

InternWiz - Personal Project**May 2023 – Aug 23**

- Developed an innovative platform streamlining startup internship search through AI-driven personalized cold emails, supported with seamless and automated resume parsing
- Managed end-to-end development of frontend (Typescript & CSS) and backend of platform
- Empower users with access to a vast database of over 4000+ automatically curated Singapore startups through an infinite scrolling dashboard with filtering options and one-click exploration of relevant information

Mercy Relief Content Management Platform**Sep 22 – Apr 23**

- Google's Developer Student Club (Software Engineer) - Development of a content management system website for Mercy Relief, a worldwide disaster relief NGO
- Contributed to the technical development of the platform as part of a student-led team with weekly sprint meetings

Google's Student Developer's Hack4Good Hackathon 2023**Feb 23 - Feb 23**

- Led a team in development of an online platform for companies and PWDs to conduct web accessibility testing and assessment.
- Created the Figma UI prototype from scratch, developed the platform's frontend with Next.JS framework, and lastly, designed the API backend server of the platform with Node.JS, Express, Google Cloud Function, and Firestore

DSTA CodeEXP Hackathon 2022**May 22 - Jun 22**

- Built an all-in-one lifestyle service mobile application for Singapore's National Servicemen using Google Flutter and Firestore

Cloud Inventory Management System

- Developed a cloud inventory management system using Python, gCloud, and Telegram that was able to streamline my eCommerce business with stock validation, digital delivery and restocking which has handled over 1960+ orders to date.
- The system was able to cut down digital goods delivery time to a few seconds

PROFESSIONAL CERTIFICATION

- Certified Google Cloud Associate Cloud Engineer
- Dec 2020 - Present
- <https://www.credential.net/4f26c23e-8ba0-4033-9452-7a79e7dbbb96>

ADDITIONAL INFORMATION

- Languages: C++, Python, C, React.JS, HTML, CSS, Dart (Flutter), Verilog, Java, Typescript, Bash
- Skills: Microsoft Office, OOP (C++), gCloud Computing Platform, Google Firebase, AWS, MongoDB, Express, Node.js, Networking, Linux, Distributed Systems