

## EDUCATION

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**Nanyang Technological University (NTU)**

Aug 2021 – **Jun 2024** (Expected)

- **Bachelor of Engineering (Electrical and Electronic Engineering)**
- **Honours (Merit)** (Expected)
- Specialization: **Info-Communications Engineering (Computer Engineering)** (Expected)
- Relevant Modules: (1) *From Computational Thinking to Programming* (2) *Data Structures and Algorithms* (3) *Computer Communications* (4) *Intro to Data Science and Artificial Intelligence (DSAI)* (5) *Web Application Design* (6) *Intelligent System Design* (7) *Database Systems*

### Virtual Training and Learning Development

- (Udemy) 100 Days of Code “The Complete Python Pro Bootcamp 2022”
- (Udemy) The Complete JavaScript Course 2023: From Zero to Expert!
- (Udemy) Ethereum and Solidity: The Complete Developer’s Guide
- AWS online course: AWS Cloud Practitioner Essentials

**Temasek Polytechnic (TP)**

Apr 2017 – Feb 2020

- **Diploma in Biomedical Engineering**; CGPA: 3.59 / 4.00

## PROJECTS

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### Authentic8: A dApp for Proof of Authentication of Physical Goods

Aug 2023 - May 2024

- Developed an iOS Decentralised Application (dApp) with **React Native**, utilizing blockchain technology for authenticating physical goods through QR code scans.
- Deployed Ethereum smart contracts using the **Solidity** language with the **Truffle** suite, adopting the ERC721 standard for ownership management.
- Integrated the QR code feature to assign secure digital tags to physical goods, facilitating seamless product verification and ownership transfers.

### Cinema Paradiso: A web portal for booking Cinema tickets

Oct 2023 - Nov 2023

- Collaborated in a two-person team to develop a responsive web portal for cinema ticket bookings using **HTML**, **CSS**, and **Javascript**, ensuring a seamless user interface with features such as interactive seat selection and booking retrieval.
- Managed backend operation with **PHP and MySQL**, executing database connections and queries on XAMPP server.

### NTU DIP: Elderly Health Monitoring by an Impulse Radio UWB Radar

Jan 2023 - Apr 2023

- Collaborated in a team of six to develop a Python script to improve accuracy for processing radar data frames and detect minor movements.
- Analysed the Ultra-Wide Band (UWB) Radar's working mechanism and utilised Python's SciPy library for signal processing and integrating them with existing codebase.

### NTU DSAI Project: Machine Learning for Cardiovascular Diseases Prediction

Jan 2023 – Apr 2023

- Collaborated in a team of four to create a Python-based Machine Learning classifier aimed at predicting cardiovascular diseases. Conducted comprehensive data analysis and visualisation, and assessed algorithms such as Logistic Regression and Random Forest for model training.
- Developed a user-friendly interface using Tkinter for the display of predictive outcomes.

## WORK EXPERIENCE

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### Infineon Technologies Asia Pacific, IoT/ Embedded systems Intern

July 2022 – Dec 2022

- Contributed to an IoT development project by programming a System-on-Chip (SoC) IoT sensor kit using **C language**, which was interfaced with a **Raspberry Pi** via **MQTT** protocols, leveraging Eclipse Mosquitto as the communication broker to transmit sensor information.
- Presented the IoT sensor kit at a corporate showcase, explaining the product’s features and applications, and demonstrating its functionalities to attendees.
- Configured and deployed a 60GHz radar module for occupancy tracking and area segmentation tasks, thereby integrating it with **AWS IoT Core** via MQTT protocol.

### Uniqlo Pte Ltd, Retail Associate (Part-Time)

Sep 2017 – Aug 2021

- Provided high-quality customer service with customers’ needs fulfilment (e.g., assisting customers with product selection / purchasing, sharing product and services information).
- Displayed merchandise on mannequins to appeal potential customers about new arrivals and popular products thereby maximizing sales.
- Carried out ad-hoc duties (e.g., phone calling to customers, transferred products, changed product layout)

## SKILLS

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- **Programming Languages:** C, MATLAB, Python, JavaScript, mySQL, HTML5, CSS, PHP, Solidity
- **Developer Tools:** Linux, Git, AWS, Docker, Node.js, Truffle, Ganache, React Native
- **Application and software skills:** MPLAB, Microsoft Office, LabView, Blockchain, Agile Development, JIRA