

EDUCATION

Nanyang Technological University (NTU), Singapore

Aug 2021 – Present

Bachelor of Engineering in Electrical and Electronic Engineering

- Honours (Merit), Current CGPA: 3.95/5.00
- Banyan Hall Basketball Captain - AY21/22

PROJECTS

Personal

Dec 2021 – Jan 2022

NFT Collection – CryptoShowroom#1 & CryptoGarage#1 & Project CryptoCars

- Created 3 collection of Non-Fungible Token (NFT) using Python
- Minted the 3 collections on the Polygon blockchain on OpenSea with a Windows Application and a modified Python script
- <https://opensea.io/collection/crypto-showroom-1> & <https://opensea.io/collection/crypto-garage-1> & <https://opensea.io/collection/project-cryptocars>

2D Game – CryptoCars

Jan 2022 – Feb 2022

- Built a WebGL game with Unity Game Engine
- Designed game elements with Pixelart and scripted with Unity C#
- Collaborated with international creators to fine tune integration of the game
- Published WebGL version on Itch.io and Android version on Google Play, also available in iOS version
- Itch.io: <https://deandrehaijiel.itch.io/cryptocars>
- Google Play: <https://play.google.com/store/apps/details?id=com.deandrehaijiel.CryptoCars>

Lifestyle Application – choices : random

May 2022 – May 2022

- Built a randomizer application with Unity Game Engine
- Designed application elements with Pixelart and scripted with Unity C#
- Published Android version on Google Play, also available in iOS version
- Google Play: <https://play.google.com/store/apps/details?id=com.deandrehaijiel.randomizer>

School

Design & Implementation of Blockchain Testbed for Cyber Security

Aug 2022 – Oct 2022

- Built an educational website introducing Blockchain Technology and Blockchain Voting System with React library
- Built a Blockchain Voting System application (BlockVote) with NEAR Protocol
- Educational Website: <https://deandrehaijiel.github.io/blockchain-voting-system/>
- BlockVote: <https://github.com/deandrehaijiel/blockvote>

INTERNSHIP EXPERIENCE

Influential Brands LLP

Software Developer Intern

May 2022 – Aug 2022

- Lead the development of an application on IOS and Android for the organisation's projects
- Developed a cross platform networking application with Flutter framework; implementing messaging, video and voice calling features, alongside designed the business's newsfeed UI/UX for regular updates
- Configured profile pages for both members and personals as well as showcasing community groups and its members
- Participated in the full software development cycle of the application from design to implementation, testing and delivery

Rolls Royce Singapore Pte. Ltd.

Mar 2018 – Aug 2018

Rolls-Royce Electrical, Engineering Intern

- Identify the platform for the process with section flexibility for Variable Stator Valve Actuator (VSV Action Controller)
- Evaluated tools available for selected System on a chip (SoC)
- Write IP for SoC (VHDL/Verilog)
- Link ARM processor to control the duty cycle of Pulse-Width Modulation (PWM) by means of communication from PC through Ethernet via Transmission Control Protocol/Internet Protocol (TCP/IP) using Visual Basic Application [Graphical User Interface]
- Proactively developed a software to communicate between the input system and the integrated circuit

SKILLS

Languages: Proficient in English and Chinese

Digital Skills: AutoCAD, CSS, C#, C++, Dart, Flutter, HTML, JavaScript, jQuery, MATLAB, Microsoft Office, Microsoft Visual Basic, MySQL, npm, Photoshop, React, SCSS, Unity 2D

HOBBIES & INTERESTS

Sports (Basketball), Gym, Hiking, Music (Singing), Photography, Videography