

EDUCATION

UC Berkeley, California Summer Sessions

Jun 2024 - Aug 2024

CS161 Computer Security, CS188 Introduction to AI

- Developed projects targeting vulnerabilities in C like buffer overflows, and a secure file sharing program implemented in Go with cryptographic techniques to ensure confidentiality and integrity
- Accessed and exploited web security vulnerabilities like SQL injections, XSS and path traversal attacks for a given at-risk website
- Engineered a reinforcement learning project using Q learning to enable an agent to find optimal paths to goals, and leveraged PyTorch to develop Digit Classification and Language Identification algorithms

Nanyang Technological University, Singapore

Aug 2022 - Aug 2026

Bachelor of Engineering (Computer Science) with a Second Major in Business, CGPA: 4.11/5.00

- Expected Honours (Distinction)

ACADEMIC PROJECTS

Nanyang Technological University

Oct 2023 - Nov 2023

Object Oriented Programming Assignment

- Developed a command line interface application staff and students to manage camps using Java.
- Designed an application following application requirements and SOLID design principles.
- Presented user journey of how a user would navigate the application with input validation.

Nanyang Technological University Introduction to Data Science and AI

Mar 2023 - Apr 2023

- Utilized python libraries to implement data cleaning and resampling techniques for wine data to engineer a Gradient Boosting classification model.
- Produced insightful data visualizations and inferences for actionable insights by working with team members.
- Collaborated on a video presentation with a voiceover demonstrating how the data was engineered to gain valuable findings.

PERSONAL PROJECTS

Google Data Analytics Capstone Coursera

Nov 2023 - Dec 2023

- Made R markdown scripts to clean a data set on cyclists in Chicago.
- Analysed clean data and plotted graphs using ggplot2 to visualize trends in how member and casual riders used the bikes.

The Wild Oasis Udemy Business

Jun 2023 - Aug 2023

- Created a website for managing cabins and guests in a fictitious hotel (The Wild Oasis) using React.js with various libraries.
- Integrated a backend service to fetch and modify relevant data in a database for user authentication and other functionalities.
- Self-learned a popular JavaScript library beyond the scope of university's modules to design a front end web application.

CERTIFICATES

- Google Data Analytics Coursera
- CAO x TCS Tech4Betterment Program UI / UX
- Career Essentials in Cybersecurity
- Certificate of Participation in LevelUP! Round 7 Structured Mentorship Program
- Udemy - The Ultimate React Course 2023
- Udemy - The Complete JavaScript Course 2023
- freeCodeCamp's Responsive Web Design
- iNTUition 8.0 Certificate of Participation
- HarvardX CS50's Introduction to Computer Science
- NUS Data Analytics Begins with Me
- Fundamentals of digital marketing by Google Digital Garage

SKILLS

Languages: Proficient in English and Chinese, basic proficiency in Japanese

Digital Skills: JavaScript, Python, React, Java, R, Google Sheets, SQL, Tableau, HTML, CSS

HOBBIES & INTERESTS

Technology, Sports (Squash), Swimming, Creative Writing (NTU Literature Day 2019 Participant)