

EDUCATION

Nanyang Technological University, Singapore

Aug 2021 – Dec 2024

Bachelor of Engineering (Computer Science)

- Relevant Modules: Data Science and Artificial Intelligence, Algorithm Design and Analysis, Object-Oriented Design Programming and Operating Systems
- Distinction Modules: Data Structure and Algorithm
- Co-curricular activities: SCSE Welfare Subcommittee Member
- Competed in Hack&Roll hackathon in 2023
- Achieved Silver in WorldQuant BRAIN's 2023 International Quant Championship

Singapore Polytechnic, Singapore

Apr 2016 – Apr 2019

Diploma in Infocomm Security Management

- Contested in I'm the Best Coder! Challenge by Shopee in 2019
- Achieved Certified Ethical Hacker (CEH) qualification in 2019
- Achieved Silver for Cyber Defenders Discovery Camp in 2017
- Contested in Gryphon Capture The Flag in 2017

EXPERIENCE

PARETO

Jun 2023 – Present

Founder/Software Engineer

- Conceptualized and founded Pareto, a web-based platform dedicated to portfolio tracking, catering to all individuals with investment holdings
- Architected and spearheaded the development of Pareto web application utilizing Next.js, TypeScript, and MongoDB
- Implemented robust RESTful APIs, seamlessly integrating them with MongoDB and external financial data API to ensure efficient data management and retrieval

BINANCE

May 2023 – Aug 2023

Software Engineer (Intern)

- Developed and maintained the NFT Admin site using React with TypeScript and Tailwind CSS ensuring a seamless user experience
- Worked closely with senior developers to implement robust and efficient functionalities, contributing to a 15 percent improvement in the loading speed of the NFT site
- Actively engaged in Agile software development methodologies, such as code reviews, offering constructive feedback to peers

GETGO CARSHARING

May 2022 – Aug 2022

Quality Assurance Engineer (Intern)

- Leveraged TestNG and Appium to automate the GetGo mobile application and implemented test cases in Kotlin for DBS PayLah! and car services extension projects
- Liaised with product managers and CTO with daily scrum meetings to report findings, verifications, and bug resolution
- Reduced workload of software testing by 60% by switching from manual testing to an automated testing environment

CRIMSONLOGIC

Apr 2018 – Oct 2018

Quality Assurance Engineer (Temp/Intern)

- Spearheaded the automation of web browser testing through the Selenium framework
- Designed, execute, and maintain test scripts in Java and collaborated with the Software Engineering team to address and resolve these issues
- Demonstrated leadership by driving productivity improvements through the resolution of up to 90% of technical issues in project Fiji, including unresponsive web pages and faulty buttons/links
- Communicated regularly with senior management, presenting weekly updates and insightful reports featuring short summaries and statistical data

PROJECTS

SOFTWARE ENGINEERING

Flat Resale Price Prediction

- Developed a web application to view resale flat prices and help users to predict prices for selling flats
- As a team leader, assigned tasks based on individual strengths, eliciting and documenting software requirements, creating a Use Case model and contributed in website development
- Employed ReactJs for frontend development, utilised Django for backend operations and integrated with an API for resale flat prices

OBJECT-ORIENTED DESIGN PROGRAMMING PROJECT

MOBLIMA (Movie Booking and Listing Management Application)

- Led the development of a Java application to streamline movie bookings for both customers and cinema staff
- Collaborated closely with a team of 5 members to construct an application applying object-oriented concepts, SOLID design principles, and UML class diagrams
- Initiate the implementation of additional features such as OTP verification via mobile phone or email and password hashing to encrypt user passwords

SKILLS

Programming Languages: Python · Java · Kotlin · HTML/CSS · JavaScript · TypeScript · C · C++

Frameworks: ReactJS · Flask · Django · Next.js · ExpressJS

Environment: Windows · Linux/Unix · Kali Linux · MS Windows Server 2008

Database: MySQL · MongoDB