

# Yoong Yi Ru Victor

+6593621380    [victoryoong570@gmail.com](mailto:victoryoong570@gmail.com)    [linkedin.com/in/victor-yoong](https://www.linkedin.com/in/victor-yoong)  
[github.com/victoryg739](https://github.com/victoryg739)    <https://victoryg739.github.io/portfolio>

## EDUCATION

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### NANYANG TECHNOLOGICAL UNIVERSITY (NTU)

Aug 2021 – Dec 2024

#### *Bachelor of Engineering in 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
- CCA: SCSE Welfare Subcommittee Member
- Participated in Hack&Roll hackathon in 2023

### SINGAPORE POLYTECHNIC

April 2016 – April 2019

#### *Diploma in Infocomm Security Management*

- Participated 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
- Participated in Gryphon Capture the flag in 2017

## WORK EXPERIENCE

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### GETGO CARSHARING

May 2022 – Aug 2022

#### *Quality Assurance Engineer (Intern)*

- Utilised TestNG and Appium to automate the GetGo mobile application and implemented test cases in Kotlin for DBS PayLah! and car services extension projects
- Liaise 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

### AMAZON SINGAPORE

Mar 2019 – July 2019

#### *Fulfilment Associate (Part-Time)*

- Utilised basic warehouse inventory systems in stock-taking and inventory controls of 300 items every hour
- Dispatched and sorted 200 customer orders nationwide within an hour with accuracy and effectively communicate with 50 dispatch drivers

### CRIMSONLOGIC

April 2018 – Oct 2018

#### *Quality Assurance Engineer (Temp/Intern)*

- Utilised Selenium framework to automate web pages and identify issues with the web pages
- Designed, execute and maintain test scripts in Java and collaborated with the Software Engineering team to address and resolve these issues
- Resolved up to 90 percent of the technical issues (unresponsive webpages, faulty buttons and links) on project Fiji hence increasing productivity to meet deadlines
- Provided weekly updates to senior management with short reports and statistical data

## PROJECTS

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### SOFTWARE ENGINEERING

#### **Flat Resale Price Prediction**

- Developed a web application to view resale flat prices and help users to predict the price for selling their flats
- Utilized ReactJS for the frontend, Django for the backend and the Singapore Government's API for resale flat prices

### OBJECT-ORIENTED DESIGN PROGRAMMING PROJECT

#### **MOBLIMA (Movie Booking and Listing Management Application)**

- Developed a Java application for processing movie bookings for customers and cinema staff
- Built the application using object-oriented concepts, SOLID design principles, and UML class diagrams
- Implemented additional features such as OTP verification via mobile phone or email and password hashing to encrypt user passwords

## DATA SCIENCE PROJECT

### Reddit (/r/wallstreetbets) Sentiment Analysis

- Examined activity on the subreddit and conducted an analysis to ascertain the possibility of predicting stock price movements
- Sentiment analysis was done using VADER and constructed a machine learning model with Gradient Boosted Tree to address the classification problem
- Found that the classification model does provide some predictive power for the dataset

## SIMPLE WEBSITE PROJECT

### TimelessMarket

- Created a stock market search hosted by GitHub Pages and deploy via Heroku and Flask
- Web scraping was done using BeautifulSoup to provide financial data and use APIs to deliver real-time stock quotes, stock charts and the latest news
- Used Heroku to host the python API application and the front end was built with HTML, CSS and JavaScript

## FINANCIAL MODELLING

### Discounted Cash Flow Model

- Build and modify a discounted cash flow model using Excel to deduce a stock's intrinsic value
- Employed S&P Capital IQ API to fetch the company's financials and market data to eliminate the manual data entry process
- Used Crystal Ball to perform Monte Carlo Simulation on the different random variables affecting the valuation of the stocks

## FINAL YEAR PROJECT

### Security Analytics

- Statistical analysis of NetFlow data and provide meaningful visualization
- Detected cybersecurity threats with anomaly detection, clustering and forecasting
- Visualization is done on Qlik Sense in conjunction with Server-Side Extension (SSE) code in Python
- The goal of the project is to enable clients to gain meaningful insights and plan their next actions from the analysis

## SKILLS

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**Languages:** Java, C, C++, Kotlin, Python, HTML, CSS, JavaScript

**Frameworks:** React, Node.js, Next.js, Flask

**Environment**

**/Servers:** Windows, Linux/Unix, Kali Linux, MS Windows Server 2008, MySQL, MongoDB