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<https://victoryg739.github.io/portfolio>

EDUCATION

NANYANG TECHNOLOGICAL UNIVERSITY (NTU)

Aug 2021 – Aug 2025

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

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

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

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

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

Frameworks: React, Node.js, Next.js

Environment

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