Yoong Yi Ru Victor

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EDUCATION

NANYANG TECHNOLOGICAL UNIVERSITY (NTU)   Aug 2021 – Present
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
- 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)
- MOBLIMA is an application to process movie bookings which can be used by customers and cinema staff.
- Java application is built on the basis of Object Oriented (OO) Concepts, SOLID design principles and UML class diagrams
- Additional features include OTP verification via mobile phone or email and password hashing to encrypt these passwords into ciphertext, such that the data file is inaccessible to other users

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 is done using Beautiful Soup 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 front end is built with simple 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

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