

NG RUI QIN

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Education

Singapore Management University

Bachelor of Science (Majoring in Information Systems and Operational Analytics) | GPA 3.71/4

- **Overseas Exchange Programmes:** IT University of Copenhagen and Copenhagen Business School
- **Teaching Assistant:** Social Analytics and Applications
- **Co-Curricular Activities:** President of SMU Verts Environment Club

2016 – 2020
(Expected)

Singapore Polytechnic

Diploma in Financial Informatics (with Diploma-Plus in Accounting)

2011 – 2014

Work Experience

Instructor – MIT App Inventor

Code Gakko

- Taught Grade 6 to 12 students on the components of an Android app and how they interact with code
- Introduced coding concepts such as variables, loops, data structures and TinyDB, and guided students to implement them with block-based programming

Sep 2019 –
Dec 2019

Data Analytics Intern

Green Innovation Group A/S

- Presented an analysis of start-ups in the green sector to the co-founders and team using Python
- Proposed ways to extract and present keywords from start-up information to increase visibility
- Developed web scrapers using Python and Selenium to extract information from hundreds of companies' social media profiles, reducing time taken for data extraction

Jun 2019 –
Aug 2019

Data Analyst Intern, Enterprise Business Group – SmartHub

StarHub

- Conceptualised and built a full data science pipeline in Python to predict subscribers' demographics from web surfing data, and achieved more than 60% accuracy in a demographic prediction
- Developed a bot detector algorithm that detects suspicious behaviour using Python

May 2018 –
Aug 2018

Assistant Trainer – Scratch, Arduino Uno and mBlock

Tech Six Global

- Guided secondary school students on block-based programming with Scratch, followed by mBlock for Arduino Uno

Jan 2018 –
Feb 2018

Bank Intern, Customer Advocacy and Service Quality

United Overseas Bank Limited

- Developed web pages in JavaScript for customer surveys and brought eight of them to production
- Automated the daily survey response data processing process across touchpoints using Microsoft Excel and VBA
- Analysed thousands of customer's ratings and verbatim for Net Promoter Score for reporting to top management and business units

May 2017 –
Dec 2017

Skills and Projects

Programming Languages: F#, Java, JavaScript, Python, Ruby, SQL, R

Development Frameworks/Libraries: NumPy, Pandas, Scikit-learn, Spring Boot, Tidyverse

Taxi Fleet Visualisation System

With Fujitsu-SMU Urban Computing and Engineering (UNICEN) Corp. Lab

- Developed efficient and scalable PostgreSQL database for efficient data extraction, transformation and loading
- Integrated backend application and database system, allowing for more than 20,000 records to be processed every minute using Java and Spring Boot

Jun 2018 –
Dec 2018

E-Payment in Singapore

With Sectoral Innovation Group, Infocomm Development Authority (Singapore)

- Initiated a polytechnic-wide ideation challenge to generate interest for e-payment technologies, including CEPAS and NFC
- Created and managed social media profiles and content to advocate for e-payment adoption

Apr 2013 –
Nov 2013

Honours and Achievements

Champion, Young Corporate Social Responsibility Leaders Award

2017

Champion in Microsoft Excel (Tertiary Category)

2014