

Phil Edie

Software Engineer.

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SKILLS SUMMARY

Leadership - I know how to help others be successful. I have completed Spotswood College's Peer Support Leadership Programme and attended the Vertical Horizon Leadership Camp. I demonstrated my leadership skills at the Summer of Tech 2020 Create Camp. I presented the technical aspects of my team's app to over 60 people and helped to answer questions from panellists.

Time Management: - During 2021 I tutored for Victoria University alongside my studies. My role required managing two tutorials per week and regularly marking 25+ assignments within a strict two-week timeframe. I successfully prepared for each tutorial and completed all my marking on time while maintaining high grades in my other courses.

Working Remotely - Because of COVID-19, all my classes in trimester 1 of 2020 moved online. Working from home required strong communication skills, time management, and self-discipline. While studying remotely, I achieved an A+ for Computer Program Design, an A+ for Cybersecurity and an A for Engineering Mathematics. I also have experience working in a team remotely through the SoT Online Create Camp.

TECHNOLOGY SUMMARY

Languages: Java, Python, Kotlin, C#, C/C++, PHP, HTML, CSS

Tools/Libraries: Git, JUnit, SK-Learn, Pandas, Swing, BeautifulSoup, Selenium, PyTorch, Linux, AWS, Docker, Android Studio

RECENT PROJECTS

Investment & Loan Optimiser (Java, Swing): A financial tool which finds the optimum distribution of payments across multiple loans and investments. Users can enter as many loans or investments as needed. The program then displays a future projection for all account balances.

Job Scraper (Python, BeautifulSoup, Selenium): A web-scraping tool that collects job descriptions from Indeed and LinkedIn and outputs them to an Excel file. Users can specify search parameters such as keywords, locations, and experience levels. All duplicate jobs are automatically filtered out.

Chapper's Challenge (Java, Swing): Worked in a group of five students over three weeks to develop an adaptation of Epyx's 1989 game 'Chips Challenge'. I implemented the save and load feature using XML parsing and developed a plugin system using URLClassLoader.

Pokedex App (Kotlin, Android Studio): Developed an Android app which uses PokeAPI to retrieve and display images, descriptions, and statistics for all 901 Pokemon.

Predicting Music Genres Using Classification (Python, SK-Learn): Designed a machine learning model which uses features such as tempo, key, and loudness to predict music genres. The model scored in the top 16% of the COMP309 Kaggle Competition with an accuracy score of 59.96%.

TriviaBot: (Python, discord.py): Developed a discord bot which generates random trivia questions sourced from the Open Trivia Database API.

RELEVANT WORK EXPERIENCE (REFERENCES AVAILABLE ON REQUEST)

Engineering and Computer Science Tutor for COMP132 – Victoria University of Wellington

July 2021 – November 2021

Teaching students the following learning objectives:

- How to perform operations on datasets using Python. Some examples include data analysis, data manipulation, and statistical summaries.
- How to use Pandas to organize, manage, and store data.
- How to use Matplotlib to visualize and understand data.
- How to use machine learning tools provided by SK-Learn to make predictions using data.

Engineering and Computer Science Tutor for CYBR171 – Victoria University of Wellington

February 2021 – July 2021

Teaching students the following learning objectives:

- How to navigate Linux through the command line.
- How to use tools such as OpenSSL to encrypt and decrypt files.
- How to check the integrity of files using GnuPG.
- How to use Wireshark to monitor internet traffic.

EDUCATION

Victoria University of Wellington

B.S. in Computer Science, expected December 2022

Honours: Deans List (2021, 2020), SoT Create Camp Tech Award Winner (2020), Victoria Excellence Scholarship (2017)

Spotswood College

2012 – 2016

Honours: Endorsed with Excellence (NCEA Levels 2 & 3), Endorsed with Merit (NCEA Level 1)

Activities: Peer Support Leader.