

Employment History

Software Engineer	OpenBet	March 2021 - Present
<ul style="list-style-type: none">• Develop new features including API and database designs, and 3rd party modules integration and testing• Practice Test-driven development to produce robust, clean, and polished code to a high standard of quality• Discuss with customer and 3rd party API provider and practice behaviour-driven development to extract requirements• Work in agile team and provide continuous feedback in code review, and mentor new hires during their onboarding		
Software Developer	TCM Technologies LTD	September 2020 - March 2021
<ul style="list-style-type: none">• Maintained and improved Bell Telecommunications' internal and external SCADA web applications• Utilized jQuery, Handlebars, and Angular for Frontend development, NodeJS, MongoDB for Backend development• Created script to automatically upgrade software and update config on powerplant controllers• Redeveloped and redesigned TCM in-house web app using React and the existing Perl legacy backend		
Linux Automation QA, Co-op	T2 Systems, Inc.	October 2017 - August 2018
<ul style="list-style-type: none">• Designed and executed both manual and automation test cases for verification and regression testing, worked closely with developers to track, report, and fix bugs• Implemented and improved automation tests for SW application on Linux platform using Python Unittest framework• Participated in sprint planning and retrospective, and worked in Agile environment with Agile development tools, such as Bitbucket, Jira• Created a mock web server using Python Flask framework to handle HTTP requests and to test applications with specific responses		

Education

Bachelor of Applied Science, Simon Fraser University, Burnaby

January 2015 – August 2019

Mechatronic Systems Engineering

Technical Projects

Personal Website: <https://jackneng.github.io> (for additional information and projects)

E-Commerce Site

- Developed a web server and created crud methods for an e-commerce site to persist data to online database
- Implemented user authentication for customers with the use of Spring Security and JWT token provider
- Created a single-page website for customers to do shopping online and maintained it with the latest UI frameworks
- Designed database to store all the products, customer, and other data with MySQL and Amazon RDS service
- Utilized: Java Spring Boot, Spring Security, JWT, JavaScript, React, MySQL, MySQL Workbench, AWS RDS

Covid 19 Tracker

- Created Cron jobs to fetch data from Canada Health Website and WHO automatically from daily CSV file, then process the data and store in DB
- Designed database with MongoDB to store fetched data and insert/retrieve them with Nodejs express server
- Created website to visualize the raw number data and display them into list, chart and map views
- Utilized: JavaScript React, Nodejs, express, MongoDB

Menu Hosting Service

- Developed a web server for restaurants to post their happy hour/special menus online using Python Django
- Created a user authentication for restaurant to register and login with the use of Python Knox framework
- Designed a user-friendly website for people to check out the restaurants' menus and contact info using JavaScript React, Redux and Axios frameworks
- Utilized: Python Django, Django REST, Knox, JavaScript React, Redux, Axios, SQLite

Skills

Software: (proficient): JavaScript, Java, Python, Git, SQL, Embedded system (familiar): C/C++, Algorithms & Data Structures