Bradley Jang

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Education

University of Victoria September 2016 – May 2021

Bachelor of Science, Computer Science

Graduated May 2021

Relevant Courses: *Information Security and Privacy, Computer Networks, Databases, Operating Systems, Intro to Artificial Intelligence, Systems for Massive Datasets, Systems Analysis, Digital Logic and Computer Organization, Human-Computer Interaction*

Experience

Junior Back-End Developer Co-Op June 2020 – August 2020

Casting Workbook

- Developed an API using C# and MS SQL Server to operate on 50,000 old database entries
- Utilized C# and MS SQL Server to improve online casting platform, allowing casting directors to edit records that were previously changed manually by employees
- Used .NET Data Transfer Objects to map JSON input into a format that can be operated upon by SQL
- Implemented error handling using .NET framework to undo erroneous or redundant changes to databases
- Performed strenuous unit and behavioural testing using company's Swagger API

Front Desk Staff September 2019 – May 2021

Rosebank Gardens 55+ Condominiums *Victoria, BC*

- Performed computer support for condominium residents on request
- Oversaw day-to-day running of the facility, including meal orders, Covid-19 screening, and resident hospitality
- Assisted residents during medical emergencies using standard first-aid

Projects

Domain Analytics | *Shell Scripting* March 2021

- Wrote a Shell script to gather information pertaining to the domain registrar, web hosting provider and network provider of a given domain using Linux commands such as whois, sed/awk, and grep
- Employed checks to ensure input was in a form readable by Linux, modifying the input if improperly formatted
- Returned output to user in a .txt file, overwriting the file with each successive use

Sudoku Solver | *Java* February 2021

- Utilized matrices to represent a Sudoku problem, with options to use sample or user provided values
- Designed a program that uses depth first search to solve the Sudoku problem

Constraint Satisfaction Problems (CSP) | *Java* November - December 2020

- Developed robust code to solve variant of Zebra problem using a recursive backtracking algorithm
- Modeled constraints imposed by the problem using principles of object-oriented programming

Online Analytical Processing (OLAP) | *Python* March 2020

- Wrote OLAP queries in Python to perform operations on numeric and categorical CSV columns
- Implemented advanced functionality to compute chosen aggregates for unique values in a given categorical column
- Checked queries against both self-created and peer-created data

HTML to CSV Converter | *Python* October - November 2019

- Wrote code in Python to convert HTML tables to a CSV representation
- Checked that basic HTML conventions were present before operating on HTML input
- Successfully incorporated error handling, with output to stderr in Linux

Technical Skills

Languages: HTML/CSS, C#, Java, Python, C, SQL (Postgres, MSSQL)
Frameworks: .NET, Balsamiq, WordPress
Developer Tools: Git, VS Code, Visual Studio, Notepad++, Pycharm, IntelliJ, Swagger, LaTex