Robin
Pan

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WORK EXPERIENCE

Photonics Software Designer
Ciena Corporation - January 2017 to April 2017
- Developed tool for analysis of network card logs
  - Designed generic tool for log analysis based on requirements gathered from multiple different teams
  - Examined sections of card firmware source code to determine error conditions
  - Implemented with simple, well-structured code using Python
  - Created unit-test suites
  - Wrote technical document outlining the requirements and usage of the tool
- Performed maintainance tasks on network cards

QA Analyst
Climax Media - May 2016 to August 2016
- Developed and executed test suites for websites following the agile development process
- Performed manual front-end testing on websites
- Wrote test scripts using WebdriverIO with Mocha and Chai for front-end of websites
- Worked with DB2 database as well as Honda API for manual website back-end testing
- Wrote basic JavaScript scripts for website back-end testing

PERSONAL PROJECTS

Snek
- Parody of the real-time arcade game 'Snake'
- Implemented using C and SDL graphics library
- Acquired a basic proficiency in SDL
- Gained insight on the inner mechanisms of real-time games

Calculator
- Program that computes arithmetic expressions
- GUI and back-end implemented using C#
- Applied object-oriented principles for a simple implementation

Personal Website
- Responsive website implemented with HTML, CSS and JavaScript
- Gained an understanding on various concepts of web design and web development

EDUCATION

Candidate for Bachelor of Computer Science, University of Waterloo
- CS 136 – Elementary Algorithm Design and Data Abstraction
- CS 240 – Data Structures and Data Management
- CS 241 – Foundations of Sequential Programs
- CS 246 – Object-Oriented Software Development
- MATH 239 – Intro to Combinatorics

SKILLS

Languages and Frameworks
-C++
-Python
-Bash
-Java
-HTML and CSS
-Javascript
-C#
-Scheme (Racket)
-SQL
-MIPS Assembly
-Node.js

Software Skills
-Object-oriented programming
-Version control using Git
-Functional programming
-Manual and automated testing
-Agile development
-Technical writing
-Linux
-Windows
-Eclipse
-Visual studio
-LaTeX

HOBBIES

Piano
-ARCT Diploma, First Class Honours
-Highest RCM level 8 mark in Canada
-CMC National Finalist

Swimming
Bronze Medalion
CPR training