

GILLIAN PIERCE

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Engineering Co-op Program
University of Alberta

EDUCATION

BSc. Computer Engineering 2020, University of Alberta, Edmonton, AB 2015 - Present

- **Cumulative GPA:** 3.4/4.0
- **Project Work:** Created an Android app that integrates with Spotify's web API, built a restaurant finder for Arduino using C++, programmed a Python based client-server Sudoku game/solver for Arduino, created a CLI for managing orders at a fictional store using Python and SQL, designed and implemented an inventory management web application using a LEMP stack

EDUCATIONAL ACHEIVEMENTS

- Chancellor's Excellence Citation (2015)
- Dean's Entrance Citation in Engineering (2015)
- University of Alberta Academic Excellence Award (2015)
- Faculty of Engineering Academic Excellence Award (2015)
- APEGA Education Foundation Academic Excellence Award in Engineering (2015)
- National AP Scholar (2015)

TECHNOLOGIES

- **Web Development:** HTML5, CSS3, JavaScript, jQuery, React, Node, Foundation, Bootstrap
- **Languages:** Java, C/C++, Python, SQL, SQLite, Perl, Bash, Assembly
- **Software/Others:** Android Studio, Version Control (Git), Matlab, Arduino

WORK EXPERIENCE

SOFTWARE DEVELOPER CO-OP

May – September 2018

Network Automation, Shaw Communications, Calgary, AB

- Developed Java code to expand the functionality of a network device configuration management tool
- Refactored an existing web application written in Java, JavaScript and JSP to use the MVC architectural pattern
- Utilized Tableau to develop data visualizations as part of a proof of concept

- Employed Atlassian's Crucible tool to complete thorough code reviews
- Completed 9 hours of Agile and Dev Ops training

TECHNICAL SUPPORT ENGINEER TIER 4

January – May 2018

IP and Optical Networks, Nokia, Kanata, ON

- Wrote Perl scripts to interface with the Jira REST API and display meaningful data summaries in HTML tables
- Configured virtual network topologies to aid in the construction of a simulated customer network
- Created a Bash script to make scheduled backups of virtual machines and prune outdated backup files
- Designed a system to automate the creation of draft release notes documentation

JUNIOR DEVELOPER

May - August 2017

Service Systems Research Group, University of Alberta, Edmonton, AB

- Designed and implemented a JavaScript, jQuery and D3.js based visual SPARQL query editor
- Leveraged Foundation CSS framework to create an appealing and intuitive user interface
- Implemented a local development server using Express.js
- Wrote Python scripts to automate parsing and formatting of RDF data

BARISTA

August 2016 - Present

Transcend Coffee, Edmonton, AB

- Acquired specialized coffee knowledge to ensure customer inquiries were answered fully and accurately
- Maintained high quality standards in food and beverage preparation
- Efficiently and effectively managed several simultaneous orders during busy periods
- Responsibly handled 1000+ dollars in cash when performing cash-out duties

VOLUNTEER EXPERIENCE

VICE PRESIDENT STUDENT LIFE

April 2017 – April 2018

Engineering Students' Society, Edmonton, AB

- Lead a team of event coordinators to plan and execute engaging and inclusive events for all engineering students at the University of Alberta

REFERENCES

- available upon request