Gillian **Pierce**

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Education

University of Southern California   *Los Angeles, CA*
M.SC. IN COMPUTER SCIENCE   *Aug. 2020 - May. 2022*

University of Alberta   *Edmonton, AB*
B.SC. IN COMPUTER ENGINEERING CO-OP   *Sep. 2015 - Jun. 2020*
· Graduated with Distinction

Skills

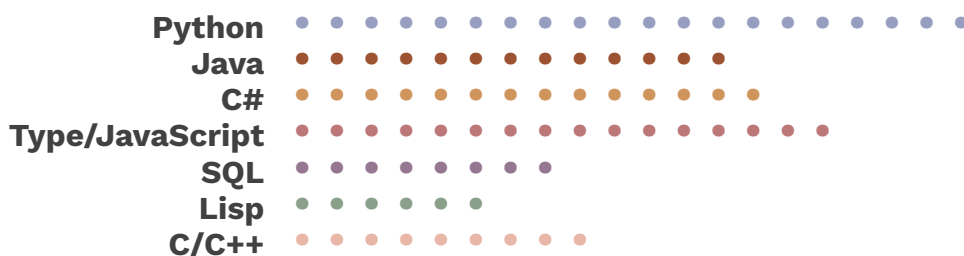|	
Web Development	JavaScript/TypeScript, React, Redux, HTML5, CSS3, Node.js, Foundation, Bootstrap
Programming	Python, Java, C#, C/C++, Perl, Bash, Lisp, Prolog, SQL/SQLite, PyTorch
Software/Others	Android Studio, Unity, Git, Arduino, Adobe Illustrator, NLP

Relative Experience

Python	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●
Java	● ● ● ● ● ● ● ● ● ●
C#	● ● ● ● ● ● ● ● ● ● ●
Type/JavaScript	● ● ● ● ● ● ● ● ● ● ● ●
SQL	● ● ● ● ● ● ●
Lisp	● ● ● ● ● ● ●
C/C++	● ● ● ● ● ●

Work Experience

Microsoft   *Remote*
SOFTWARE ENGINEER INTERN   *May. - Aug. 2021*
· Developed new technical competencies in C#, Visual Studio, and Azure DevOps
· Collaborated across teams to design and implement a complete data ingestion solution for CosmosDB Gremlin API
· Demonstrated code functionality by writing thorough unit and integration tests
· Created a framework of modular, scalable software components to allow for future expansion of data transfer tooling to other CosmosDB API's

University of Alberta   *Edmonton, AB*
RESEARCH ASSISTANT, SERVICE SYSTEMS RESEARCH GROUP   *Jun. - Dec. 2020, May. - Aug. 2017*
· Acted as the principal developer for a 3D human anatomy learning game using Unity and C#
· Used Django framework to implement a variety of healthcare related applications
· Designed and implemented a JavaScript, jQuery and D3.js based visual SPARQL query editor
· Wrote Python scripts to automate parsing and formatting of RDF data
· Co-authored a paper presented at EdMedia + Innovate Learning Conference 2021

Hubspot   *Boston, MA*
SOFTWARE ENGINEER CO-OP   *Jun. - Dec. 2019*
· Leveraged React to create responsive, intuitive, and visually appealing user interfaces
· Wrote comprehensive unit and acceptance tests using Jasmine and Selenium respectively
· Used GitHub Enterprise version control system and code review tools to ensure high quality code was shipped to customers
· Autonomously integrated and deployed code to production using sophisticated in-house web tools
· Participated in bi-weekly meetings regarding reliability, alerting and technical debt

Shaw Communications *Calgary, AB*

SOFTWARE DEVELOPER CO-OP *May. - Sep. 2018*

- 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

Nokia *Kanata, ON*

TECHNICAL SUPPORT ENGINEER TIER 4 CO-OP *Jan. - May. 2018*

- 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

Personal Projects

UFest Volunteer Website | www.volunteer.ufest.ca

- Website created to coordinate volunteering at Edmonton's premier Ukrainian Festival
- **Tech Stack:** Typescript, React, Django, Pythonanywhere

Cloudgarden | https://github.com/Green-Party/CloudGarden

- A self-contained smart gardening system that is controlled by and provides real-time sensor data to a progressive web application
- **Tech Stack:** Typescript, React, Material UI, Node and Express, Raspberry Pi and Arduino, Azure and Auth0

Botspotr | https://github.com/LukeSlev/BotSpotr

- A viral tweet analyzing web application that consumes Twitter urls and returns the likelihood that the tweet was retweeted by bots or humans
- **Tech Stack:** React, Node and Express, Twitter API, Botometer API

Collabify | https://github.com/tymoorej/Collabify

- An Android application for creating collaborative playlists on Spotify
- **Tech Stack:** Android (Java), Firebase, Spotify API

Volunteer Experience

Engineering Students' Society *University of Alberta*

VICE PRESIDENT STUDENT LIFE *Apr. 2017 - Apr. 2018*

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

Educational Achievements

2015 **Chancellor's Excellence Citation**, University of Alberta
2015 **Dean's Entrance Citation in Engineering**, University of Alberta
2015 **University of Alberta Academic Excellence Award**, University of Alberta
2015 **Faculty of Engineering Academic Excellence Award**, University of Alberta
2015 **APEGA Education Foundation Academic Excellence Award in Engineering**, APEGA

References

- Available upon request