LYNN ZHANG

SOFTWARE ENGINEER

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SKILLS

Languages: C, C++, C#, Java, SQL, Python, Erlang, Julia, R
Web Development: HTML, CSS, Typescript, Javascript, Bulma
Other: Git, Matlab, Unity, Photon, CSLA .NET framework

EDUCATION

University of British Columbia
B.Sc in Computer Science, 91% GPA
Expected graduation: December 2019

PROFESSIONAL WORK EXPERIENCE

Microsoft May 2018 - Aug 2018
Garage Developer Intern Vancouver, BC

- Developed a mixed reality HoloLens application using Unity, C# and Python that enables cancer researchers to visualize and interact with over 50,000 cells
- Led the planning and implementation of the integration with Jupyter Notebook, a data analysis tool, by combining knowledge of the MVVM codebase and user research to create a solution that was finished a week ahead of schedule
- Single-handedly implemented design mocks into all five pages of the companion web application and the main menu of the HoloLens application to create an intuitive, streamlined interface, while maintaining a frame rate <60fps
- Conducted biweekly user research sessions with the designer to decide on and implement five separate gestures
- Organized Agile sprints and led weekly sponsor meetings with BC Cancer in a team of seven interns

Statistics Canada May 2017 - Aug 2017
Co-op Student, Programmer Analyst Ottawa, ON

- Redesigned an application that calculates Canada's property tax inflation rates to improve ease of use and user experience, update outdated features, and add new features to facilitate statistical calculations
- Implemented the full stack of a references section, which included data on all 13 provinces/territories, over 50 cities, and over 3000 municipalities using C# and SQL following the .NET CSLA framework
- Frequently presented demos to the client to collect feedback and continuously improve the feature

UBC Department of Computer Science Sept 2017 - May 2018, Sept 2016 - Dec 2016
Teaching Assistant for CPSC 221, APSC 160 Vancouver, BC

- Assisted professors in a data structures and algorithms course (C++) and an introductory programming course (C)
- Facilitated learning by designing labs,leading lab sections, holding office hours, and monitoring discussion boards
- Reviewed existing teaching strategies during weekly meetings with professors and suggested improvements to ensure fair and consistent marking

AWARDS

University of British Columbia

- Trek Excellence Scholarship: top 5% students per faculty, awarded all applicable years (2016, 2017, 2018)
- J Fred Muir Memorial Scholarship: awarded based on recommendation from the Faculty of Science (2018)
- Lorne Manning Hill Scholarship, awarded based on recommendation from the Faculty of Applied Science (2016)

PROJECTS

Campus Explorer Jan 2018 - Apr 2018

- Created a full stack Typescript web application using Node.js that executes complex queries on UBC's courses
- Developed asynchronous functions to find, parse, and process the dataset from UBC's website and implemented a Javascript web server with REST/restify endpoints
- Created a comprehensive test suite with 97% code coverage to ensure quality throughout development

AirBnB Booker Nov 2017 - Dec 2017

- Built a Java application that performs various SQL queries on a MySQL database populated by AirBnB data for the final project of a relational databases course