Timothy Jou

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TECHNICAL SKILLS

Programming Languages	• Java (2 years) C++ (1 years) MATLAB (1year) SQL (6 months)
Web Languages	• HTML, CSS, JS (4 months)
Software	• Eclipse, Unity Engine, Perforce, Git, JIRA, Chrome Dev Tool

EDUCATION

Bachelor of Computer Science (B.CS) – GPA 82% Graduation Dec 2018
University of British Columbia, Vancouver, BC, Canada

Bachelor of Science (B.Sc) - Major in Microbiology and Immunology Sep 2011- Apr 2015
University of British Columbia, Vancouver, BC, Canada

RELEVANT WORK EXPERIENCE

Junior Developer (Part-Time) Sept 2017 - Present
School of Population and Public Health, UBC, Vancouver
- Maintained front end of the department database UI using **React JS**
- Migrated backed up data to a local host for an open sourced Course Management System, Moodle

Developer Intern Sep 2016 – May 2017
SAP, Vancouver
- Maintained and enhanced Crystal Report and Business Intelligence platform using **JAVA**, **C++**, and **JavaScript**
- Developed technical teamwork and communication skills by collaborating in an Agile environment working closely with developers, QA and other stake holders.
- Contributed to the development of internal tool that helps to organize the code lines using **JAVA**

TECHNICAL PROJECTS

Microsoft Hololens Capstone Project at Centre for Digital Media May 2017-Aug 2017
- Developed a basketball drill prototype using the **MS HoloTool kit** and the help of **Unity engine**.
- Implemented the physics for ball movement, logic of the game and animation, and interactive UI in **C#**
- Practiced **Agile** methodology in a team of 6 as a developer

Single Particle Tracking GUI (published @ Nature Scientific Reports) Sep 2016 – Apr 2017
- A **MATLAB** GUI that is packed with useful functions related to single-particle tracking analysis
- Ensured user friendliness by implementing multiple error-checking in the GUI
- Link to publication: https://www.nature.com/articles/s41598-017-11563-9

Greedy Arduino Tank (2017 NW Hackathon) Apr 2017
- A self-walking tank implemented with **Arduino** using ultrasonic sensors, DC motors, and Servos
- Constructed methods in **C** to allow the tank to always head in the direction where there are more space by following a **greedy algorithm** that simulates Best First Search

Coronary Blood Flow Calculator (published @ Canadian Journal of Cardiology) Apr 2016
- Implemented the logic of the website in **HTML, CSS, and JS** using the **BootStrap** framework
- Link to publication: http://www.onlinecjc.ca/article/S0828-282X(17)30645-1/fulltext

Hotel Reservation Web Application May 2016 – Jul 2016
- A web application made with **PHP** and **SQL** that simulates a hotel booking system
- Designed SQL query to allow the user to interact with the database from the UI

OTHER EXPERIENCE

Junior Auxiliary Volunteer Jul 2009 – Sep 2017
Peace Arch Hospital Emergency Room, White Rock