YUAN XU

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https://horatioxu.com/

OBJECTIVE

To obtain a position that will enable me to use my strong programming and problem-solving skills, good educational background, and ability to work well with people.

EDUCATION

University of British Columbia   *Sep 2015 - May 2019*

Fields of Study: Computer Science, Physics   *Vancouver*

- Degree: Bachelor of Science

SKILLS&COMPETENCIES

- **Languages:**   Java, C#, JavaScript, Python, TypeScript, C/C++, HTML5, CSS
- **IDE/Software:**   IntelliJ, WebStorm, CLion, Pycharm, Latex
- **Front-end:**   jQuery, Angular.js, Bootstrap, Ionic
- **Back-end:**   Node.js Express, Flask
- **Data analysis:**   Python, MATLAB
- **Database:**   MongoDB, Oracle, MySQL
- **Web Dev:**   Wordpress, JQuery, AJAX, Node.js
- **Version Control:**   Github
- **OS:**   Windows, Mac OS, Linux
- **Other Knowledge:**   Object-oriented design, Database design, Data analysis
- **Soft skills:**   Teamwork, Communication, Multi-lingual, Problem Solving, Development

EXPERIENCE

M.O.K. Technology Inc.   *Jan 2019 - Present*

Full Stack Developer   *Vancouver*

Official Website: https://spotapp.ca/

Working in the tech team as a full stack developer to develop a mobile application based on the ionic framework. The key feature of the app is to allow users to create or join real-life activities, helping individuals meet new friends and explore the city.

- Designed and implemented the database collaboratively with other developers using MongoDB
- Involved in both front-end and back-end development with tools including Node.js, Angular.js, and TypeScript, etc.
- Helped other developers debug and review the code, improved the robustness of the project.

Lumohacks – Canada's Ultimate Health Hackathon   *Sep 2017 - Sep 2017*

Front-end Developer   *SFU, Vancouver*

- Worked closely with an agile team of 5 members to design and innovate a website for individuals with insomnia to record their sleeping data, generating reports about their sleeping quality weekly and monthly.
- Brainstormed with other team members to design the project, and managed time efficiently to build up a project demo within 24 hours.
- Involved in UI design and implementation based on HTML5, CSS3, and jQuery

Science Tutor   *Feb 2018 - Present*

- Helped students from both high school and university with science courses (mainly physics, math, Cs).
- Developed students' confidence and interest toward learning, and helped them better understand abstract theories and concepts.

TECHNICAL PROJECTS

Online Shopping System   *Jun 2018 - Jul 2018*

The project is a collaborative work done by a team of 4, designed and built a java application via Java, SQL, and Oracle database to simulate an online shopping system. Various types of SQL statements were used to perform complex queries.

- Independently designed the database model, and implemented the database collaboratively with team members.
- Optimized structure of the Oracle database to shorten the response time of server and improve efficiency.
- Designed and implemented the UI with Java Swing individually, and improved the user experience.

Solar Tracking System   *Feb 2018 - Apr 2018*

A well-designed system that enables the mounted solar panel to collect the solar power efficiently by adjusting the surface of the solar panel to remain perpendicular to the incoming sunlight during day time.

- Designed and implemented the system independently based on the MSP430 microcontroller under Linux system, which was coded in C and assembly language.
- Programmed the microcontroller to send, receive and process signals to control the hardware (servo motors, Phototransistors, etc).
- Managed to design an algorithm using interrupts that enables motors to adjust the angle every 30 minutes, thereby keeping the microcontroller at low-power mode for most of the time to optimize power consumption.