Yumin Wu

4B Computer Science & Statistics

✉ yuminwu1997@gmail.com   🔗 Yumin Wu   ⌨ yumin-wu   📱 226-505-5851

TECHNICAL SKILLS

- **Programming Language:** Java, JavaScript, PHP, Python, C++, C, R
- **Framework:** Spring, Express.js, Angular, CodeIgniter
- **Other:** React/Redux, Node.js, AWS, Firebase, MySQL, MongoDB, Git, PyTorch, Keras

EDUCATION

University of Waterloo   **Waterloo, ON**

BMath. Computer Science & Statistics, Honours, Co-operative Program   *Expected Graduation: June 2021*

Major GPA: 3.90

Relevant courses: CS 456 Computer Networks, CS 458 Computer Security and Privacy, CS 454 Distributed Systems

EXPERIENCE

Amazon Alexa   **Vancouver, BC**

Software Development Engineer I - Intern   *May 2020 – Aug. 2020*

- Shipped intuitive **UI components** and **API endpoints** that enable saving speech annotations in the **Alexa Developer Console**
- Implemented **REST APIs** for saving and validating annotation data for Automatic Speech Recognition evaluation
- Developed **reusable** table **components** with pagination, filtering, and responsive status update in **React**
- Working experience with production **AWS infrastructures** with EC2, Lambda, DynamoDB, S3, and CloudWatch.

SS&C Technologies   **Toronto, ON**

Full Stack Developer - Intern   *Sep. 2019 – Dec. 2019*

- Implemented web interface for document management wiki with **Angular**, and developed **REST APIs** for data operations
- Designed database structure for document storage in **MongoDB** to improve database efficiency and maintainability
- Refactored **Spring Boot** back-end services of proprietary accounting software, increased hourly transactions from 2 to 4 millions

Achievers   **Toronto, ON**

Software Developer - Intern   *Jan. 2019 – Apr. 2019*

- Developed **REST APIs** for accessing platform member data for HR analysis with **CodeIgniter**
- Refactored **PHP** code and **MySQL** queries for manager email services with 100,000+ users, reduced run time by 30%
- Improved **regression tests** and **unit tests** in **PHPUnit**, and increase test coverage of manager email service by 50%
- Implemented **React** UI components in reporting dashboard for multiple client platforms

TD - **TRMIS**   **Toronto, ON**

Technical Business Analyst - Intern   *May 2018 – Aug. 2018*

- **Automated** report generation with **Python** scripts, reduced report generation time for security analysts by 30%
- Developed **Python** scripts for identifying security pain points based on location, hardware, and severity utilizing Qualys API

Information and Privacy Commissioner of Ontario   **Toronto, ON**

Jr. Web & IT Officer - Intern   *May 2017 - Aug. 2017*

- Developed strong **communication skills** through everyday in-person IT support

PROJECTS

Many Faces   *Sept. 2019*

- A web app that detects faces in user uploaded photos, and ranks users on leader board based on number of faces found
- Built with **React** and **Express.js**
- Integrated clarifai **API**'s face recognition module and Passort.js for **user authentication**

Tetris   *Nov. 2017*

- Single player Tetris developed in **C++** and **Object Oriented** approach, with multiple difficulty levels and scoring system
- Effectively applied **design patterns** including MVC, Factory, and Visitor to achieve encapsulation for effective team collaboration
- Implemented "hint" functionality that calculates next best place with heuristic **best-first search**