Lichen Ma

An ambitious & passionate problem-solver who codes.

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Skills

- **Programming** / C++, Java, JavaScript, Python, C, Matlab, Git
- Web Development / Spring, Angular, React, Node.is, JS (ES6), SQL, HTML5, CSS3
- Data Science / Analysis using NumPy, Pandas, statistical methods
- Mobile Development / Android using Android Studio
- **Product Management** / Strategy, project reports, UI/UX design, Agile/Scrum

Experience

Winter 2019 Full-Stack Developer, *HubHead*, NRX AssetHub.

- o Wrote custom scripts in groovy to retrieve and display client requested data as a part of the company's master data governance solution
- o Built workflow emails to manage requests and approvals including front-end (HTML) and back-end (Spring) to pull important information from a PostgreSQL Database
- o Co-ordinated with a small startup team to meet client requests and deadlines

Summer 2018 Wireless LAN Engineer, Extreme Networks, Extreme Cloud Appliance.

- o Wrote up a detailed report analyzing API testing frameworks and presenting which framework would be the most suitable for the Extreme Cloud Appliance project
- Built a testing approach using Newman and JavaScript to verify functionality for all user endpoints
- o Identified a major user profile bug before the product was launched to users

Winter 2017 Process Control Systems Engineer, Toronto Water, Process Control Systems.

- Fall 2017 o Built a database of company assets and used NumPy and Pandas to perform Python data cleaning
 - o Architected a network design including IP addressing and security architecture to provide network access to Power Distribution Units located in the company's datacenter
 - o Collaborated with the desktop team to rollout a Citrix TWave System and presented the project to Project Managers in plants located all around Toronto
 - Generated wireless survey data using Ekahau Technologies to accurately provide VoIP services

Projects

Wordly Goods - MongoDB, Express, React, NodeJS (MERN) Web Service

- o Records and analyzes user earnings and spendings and provides feedback regarding consumer spending
- o Utilized Webpack and Axios to connect the React front-end and NodeJS server

Javalon - Spring Web Service Board Game

- o Online interpretation of the card-based board game "The Resistance: Avalon"
- o Developed using Spring for API and back-end management, and Angular for front-end user interface

Prophit- Python Machine Learning

- o Time series forecasting for predicting future stock prices
- o Explored various Machine Learning techniques including Moving Average, Linear Regression, ARIMA, and **LSTM**

Education

Present Candidate for BASc in Computer Engineering, University of Waterloo.

o Related Coursework: Algorithms and Data Structures, Engineering Design with Embedded Systems, Operating SYstems and Systems Programming, Electronic Circuits