Stephen Hwang

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Education

Bachelors of Computer Science, University of Waterloo   2017 - 2022

Skills

- **Languages:** JavaScript, HTML, CSS/SCSS, SQL/MSSQL, Python, C, C++, Java, Racket
- **Technologies:** Node.js, Express, React, jQuery, AEM, Redis, Kafka, JUnit, Selenium, Mocha/Chai
- **DevOps:** Git, Unix, Docker, Nomad, Github Actions, Jenkins, Kibana, JIRA

Experience

Fullstack Engineer @ Manulife   Jan - Apr 2021

- Created critical UI/UX features in **Adobe Experience Manager** to allow for greater flexibility in web content
- Updated **JUnit** and **Selenium** tests, increasing code coverage **~20%**, and to ensure seamless CI/CD

Jr. Software Developer @ Tucows   May - Aug 2020

- Redesigned microservice to use Redis, reducing memory usage by **40%** and allowing for horizontal scaling of data store
- Created microservice using **Python** to consume and combine hundreds of **Kafka** messages from several topics concurrently
- Deployed several **Docker** images using customized **Nomad** jobs to deploy services and cron jobs
- Refactored slack bot to alert for changes to critical settings, making potential system changes visible to the team and management

Fullstack Developer @ Kenna Communications   Sept - Dec 2019

- Implemented single sign on service using **Passport, Node.js,** and **Express.js** greatly reducing users' time spent logging in
- Established first unit tests company-wide using **Mocha, Chai, Sinon,** and **Proxyquire** setting a new precedent going forward

Software Developer @ Kenna Communications   Jan - Apr 2019

- Developed complex **SQL** queries for very large data sets to filter and retrieve data within a timely manner
- Created **SQL** procedures to update/post/merge large amounts of data to sync with legacy systems

Projects

Googit   Apr 2021

- Analyzed Gitlab repos using Gitlab API to show statistics on JavaScript library usage in an organization
- Integrated caching to improve common queries speeds by **1000ms** in **Node.js** backend
- Visualized metrics and repos using graphs and cards respectively using **React.js**

Interests & Hobbies

- Hiking, Snowboarding, Badminton, Cooking, Board Games