

XIAOTIAN (ALEX) LI

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SUMMARY OF QUALIFICATIONS

- **5 years of professional work experience** in web development and technology industry
- **Strong full stack web development skills and proficient** in JavaScript, TypeScript, Java, Python, MySQL, MongoDB, GraphQL, etc.
- **In-depth knowledge** on object-oriented programming, modern front-end framework, serverless computing and DevOps gained through work and university education
- **Exceptional communication and interpersonal skills** exemplified through effective teamwork in a collaborative environment
- **Quick-learner and adaptable** in a fast-paced and demanding environment exhibited through progressing in various positions and resolving time-sensitive requests

EDUCATION

University of Washington | Bothell, WA Sept 2019 – Jun 2021

Master of Science: Computer Science & Software Engineering

Capstone Project: Agent-based parallelization of a multi-dimensional semantic database model

University of Victoria | Victoria, BC Sept 2012 – May 2016

Bachelor of Science: Computer Science

Relevant Courses: Algorithms and Data Structure, Operating Systems, Overlay and Peer-to-Peer Networking

PROFESSIONAL EXPERIENCES

Full Stack Developer | Article | Vancouver, BC Jan 2021 – Present

- Decoupled warehouse management system from the legacy monolith, laid down the system architecture and created core services and controllers using Spring Boot
- Optimized multiple core warehouse services, improved the response time of applications with over 200k monthly throughput by 42%
- Adopted PWA configuration and guided tours to increase accessibility, added Jasmin Karma and Cypress for front-end testing
- Led cross-team project throughout software development life cycle and provided mentorship to junior and coop engineers

Research Assistance | University of Washington | Bothell, WA May 2020 – Jun 2021

- Worked as a principal researcher in the project of parallelizing semantic database using Multi-Agent Spatial Simulation (MASS) library
- Optimized the performance of large-scale matrix multiplication using Cannon's algorithm by 95%
- Conducted experiments to compare the performance results between MASS, MPI and Spark

Full Stack Developer | Aurora Inc. | Vancouver, BC Jan 2018 – Dec 2019

- Led the 4-person team which was responsible for the integration among internal and external systems
- Designed and implemented full-stack user registration web app with over 10,000 daily views using JavaScript and GraphQL and implemented the unit test suite using Mocha.js, Chai.js and Sinon.js
- Delivered serverless solutions using AWS tools and services such as API Gateway, Lambda Functions, etc.
- Created boilerplate with React.js and Next.js to standardize front-end component and regulate the structure

Full Stack Developer (Contract Remote) | Work Labs | Richmond, VA Jul 2018 – Dec 2018

- Created content management system from scratch with Node.js, Vue.js, MongoDB and Serverless
- Utilized Vue.js to implement content management dashboard for different component such as hero, carousel, video player, text box, etc.
- Designed user workflow and used JSON web token to manage user authentication
- Configured continuous integration deployment pipeline with Bitrise

Web Developer | Scopemedia Inc. | Vancouver, BC Jul 2016 – Dec 2017

- Developed and designed single-page web applications with Vue.js and React.js
- Implemented service to extract the color of images by using Java and Spring
- Wrote automatic multithread crawler to fetch images and metadata from different websites with Python (BeautifulSoup, Scrapy, Selenium) and participated in training machine learning models