Joshua Lee

j763lee@uwaterloo.ca | linkedin.com/in/joshua-y-lee | github.com/yuloklee | +1 213 682 5308

EDUCATION

University of Waterloo — Sep. 2019 - Apr. 2024
B.A.Sc. Computer Engineering — Waterloo, ON
Relevant Coursework: Data Structures and Algorithms, Systems Programming and Concurrency, Computer Networks, Database Systems, Compilers, Real-time Operating Systems

WORK EXPERIENCE

ZipRecruiter — May 2023 - Aug. 2023
Software Engineer Intern — Los Angeles, CA
- Deployed a Chromatic UI regression testing step to the CICD pipeline for pull requests, capturing over 10,000 monthly visual snapshots over 5 projects throughout the company.

Roblox — Jan. 2023 - May 2023
Software Engineer Intern — San Mateo, CA
- Spearheaded a C# backend service enabling the writing and retrieval of call records for an experimental video calling API projected to be released to over 9.5 million Roblox developers.
- Evaluated tradeoffs for different pagination practices, denormalizing the record schema to maximize performance vs. space, and serializing personally identifiable information within records for user privacy.
- Implemented React UI to display records, using Redux to handle navigation, pagination, and data caching.

Jobox.ai — Jan. 2022 - Apr. 2022
Software Engineer Intern — Palo Alto, CA
- Led the frontend development for optimizing a pipeline that connects users to trade workers, increasing the bandwidth of connections made by 3x.
- Built responsive UI components in React to handle several parallelized flow and state changes, providing important context on an internal dashboard used to manage over 5,000 live jobs.

PartnerStack — May 2021 - Aug. 2021
Full Stack Developer Intern — Toronto, ON
- Revamped the pagination system on a client tool using Vue.js and Python/Flask, implementing bulk selection across pages which reduces the number of clicks required for common workflows by up to 8x less.
- Created end-to-end tests using Cypress for common user flows, increasing test coverage from 60% to 74%.

AirMatrix — Aug. 2020 - Dec. 2020
Software Engineer Intern — Toronto, ON
- Deployed and documented Django and RabbitMQ REST/AMQP APIs throughout 10+ different micro-services.
- Architected a C++ routing service implementing an A* path-finding algorithm to calculate drone flight paths.
- Built a user dashboard using React and Three.js to visualize drone routes on an interactive 3D map.

DigitalEd — Jan. 2020 - Apr. 2020
Site Reliability Engineer Intern — Waterloo, ON
- Designed and built a Slack bot using Node.js and DialogFlow that accepts slack commands requesting database information in natural language, which is then converted to Postgres query language using NLP.

SKILLS

Languages: Python, JavaScript, C++, C, C#, Java, SQL, HTML/CSS, TypeScript, Lua
Technologies: React, Vue, Node.js, Express, Firebase, Postgres, Selenium, Cypress, GraphQL, Jenkins, Socket.io, Puppeteer, Storybooks, Chromatic, MySQL, DialogFlow, Next.js, Tailwind