ALEX SHI

2B Honors Computer Science, University of Waterloo alexshi.me

w

alexshi0000



(416) 602-1990



/in/alexshi0000



SKILLS

Languages

JavaScript • Python • Kotlin C++ • TypeScript • Java HTML • CSS • SQL

Libraries / Frameworks

React • Redux • Flask Node • Airflow • Spring

Essential Technologies

Git • Docker • Redis • Linux PostgreSQL • MongoDB LottieFiles • After Effects

ACHIEVEMENTS

Hack the North ∂

Winning Team 2017

Canadian Computing Competition Senior

Ranked 99th Percentile, 2018 Ranked 94th Percentile, 2017

PennApps ∂

Finalist of 2019

WolframAlpha Data Prize

York U Hacks 2019

EDUCATION

University of Waterloo 2018 - 2023

Candidate for B.CS, Intended Minor in Economics

Relevant Courses

Software Org & Design, Object-Oriented Development, Intro Alg Design & Data Abstraction, Functional Programs

EXPERIENCE

Snaptravel // Software Engineer Intern

January 2020 - April 2020

- Worked closely with operations team to create React views and components for a new internal tool used across Snaptravel's 2+ million users
- Built dedicated Flask microservice responsible for ppc advertising bidding, impacting ad placement at scale and top of funnel marketing
- Implemented webhooks that have handled over 3200 payment disputes, reducing number of fraudulent purchases
- Optimized UI experimentation framework, allowing UI variants to be invoked and QA'd in real time
- Engineered and maintained multiple ETL pipelines with Airbnb Airflow

Deloitte // Full-Stack Developer Intern

May 2019 - August 2019

- · Built blockchain applications in Kotlin with Spring, Hibernate, and H2
- · Designed and built transaction monitoring dashboards with React Redux
- Wrote Gradle tasks that streamlined project builds by 700%
- Spearheaded development of key security features such as live anomaly detection and reporting

Watonomous // Path Planning Engineer

March 2019 - April 2019

- · Worked in a design team aimed at building a level 4 autonomous vehicle
- Refined heuristics for A* algorithm, boosted path estimation accuracy
- Integrated simulation devtools for manual costmap parameter tuning

PROJECTS

j2csv // JSON Dataset Explorer ∂

- · Leveraged Lodash to extract tabular data from online JSON datasets
- Built an interactive SQL editor with sql.js, enabling users to filter useful data

AutoDeck // Dynamic Deck Generator ⊘

- · Developed a Google Slides client for speakers to create slides as they talk
- · Utilized Web Speech and Imgur API to generate slide pictures and text

Tetris Al // Evolutionary Algorithm ⊘

- Built a genetic algorithm capable of clearing 2000+ lines in classic Tetris
- · Applied Minimax principles and multivariate testing to discover play styles