


ALEX SHI

Honors Computer Science,
University of Waterloo

alexshi.me 

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SKILLS

Languages

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

Libraries / Frameworks

React • Redux • Flask
Node • Airflow • Spring

Essential Technologies

Git • Docker • Redis
Linux • Postgres • Mongo

ACHIEVEMENTS

Hack the North

Winning Team 2017

Canadian Computing Competition Senior

Placed 50th out of 2000+
Contestants (2018)

PennApps XX

Top 30 out of 200+ Teams

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

- Built Flask microservice responsible for ppc advertising bidding, impacting ad placement at scale and top of funnel marketing
- Worked closely with UX designers to create React views and components in TypeScript for a new internal tool used across Snaptravel's 2+ million users
- Implemented webhooks that have handled 3000+ payment disputes, reducing number of fraudulent purchases
- Optimized UI experimentation framework built with Node.js, allowing UI variants to be invoked and QA'd in real time
- Engineered and maintained multiple ETL pipelines with Airbnb Airflow

Deloitte // Fullstack Developer Intern

 May 2019 - August 2019

- Built Java REST APIs with Spring Framework, Hibernate ORM, and H2 database
- Designed and constructed transaction monitoring dashboards with React - Redux
- Developed enterprise blockchain applications in Kotlin with R3 Corda
- Spearheaded development of security features such as live anomaly detection, usage monitoring, and reporting

PROJECTS

Safekeep // Airbnb for Storage

- Created a React Native app for users to rent out their free space similar to Airbnb
- Developed search view capable of surfacing thousands of listings with caching
- Implemented JWT auth with secure key-value storage and Flask-JWT
- Utilized Redis geospatial indexing for faster location polling at scale

J2CSV // Web Dataset Explorer

- Leveraged Lodash to extract and load tabular data from online JSON datasets
- Built an interactive SQL editor with sql.js, enabling users to query / transform data

AutoDeck // Dynamic Slide Generation

- Developed a Google Slides API client with Express.js for real-time slide editing
- Utilized Google Web Speech and Imgur API for image and text generation