Yizhi (Fred) Cui

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Website and Email
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Skills & Qualifications

- Languages: JavaScript, Python, SQL, C#, C++, Java, bash, MATLAB
- Frameworks: Typescript, React.js, Redux, ASP.NET, GraphQL, REST, Django
- Databases: DynamoDB, MySQL, ElasticSearch, PostgreSQL
- Tools and Technologies: Terraform, GCP, AWS, WebRTC, Cypress

Relevant Experience

Open-Source Developer, Personal Finance Software   Feb, 2023 - Present

- Tech Stack: React, Terraform, AWS Lambda, DynamoDB, S3
- Utilized asynchronous event-driven architecture to eliminate bottlenecks against multiple data accessing patterns.

Software Engineer, Bing, Microsoft, Vancouver, BC   Aug, 2021 - Feb, 2023

- Designed, implemented, A/B-tested and shipped various extensions and adaptations of multi-media Ads in Bing search result, user satisfaction gained by 10%.
- Designed and implemented typescript module for infinite scrolling image gallery.
- Developed and simplified SQL tools and scripts to reduce troubleshooting time from days to 30 minutes.

Full-Stack Engineer, Search, BenchSci, Toronto, ON   Sept, 2019 - Aug, 2021

- Used SQL materialized views and ElasticSearch's query-level-optimization to reduce search latency by 20%.
- Designed and developed "recently searched" suggestions with PostgresSQL and Django
- Implemented full-stack onboarding flow for first-time users using React/Redux.
- Integrated storybook's visual testing into existing CI pipeline, helped catch visual bugs before merging.

Application Developer, IBM Canada, Toronto, ON   Jan - Apr, 2019

- Used React, NodeJS and MongoDB for a internal staffing software
- Built Slack chatbot integration for employees' easy access to HR resources

Software Engineer, Yuja Corporation, Toronto, ON   Sept - Dec, 2017

- Designed and rewrote a video conferencing application front-end from scratch using React and WebRTC.
- Implemented conference file sharing, whiteboard drawing using HTML canvas.

Education   **B.Cs, University of Waterloo** , Canada, **GPA 3.6**   Sept. 2015 - Aug. 2019