




Jerry Xu

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EDUCATION

• University of British Columbia

GPA: 4.0

Combined Major in Business and Computer Science

Anticipated Graduation : 2023

- **Courses:** Systematic Program Design - 100%, Models of Computation - 100%, Software Construction - 98%, Data Structures & Algorithms - 96%, Computer Systems - Ongoing.
- **Awards:** Dean's Honour Roll, Trek Excellence Scholarship (top 5%).

SKILLS

- **Languages:** JavaScript/TypeScript, Java, Python, C++, HTML/CSS.
- **Frameworks and Tools:** NodeJS (Express), MongoDB (Mongoose), React, GraphQL, NextJS, Flask, Git, Jest, Redis, Docker, PostgresDB, Bootstrap, Firebase.

EXPERIENCE

• Luscinia Enterprises

Vancouver, BC

Full-Stack Engineer

August 2020 - Current

- **Led a team of 3 engineers** in the development of the client web portals for students and teachers using **React** while facilitating weekly sprint planning and code reviews.
- **Developed a REST API with Flask (Python)** to parse user metrics and dynamically respond with personalized learning resources.
- Implemented rapid lesson creation functionality in **MongoDB** and **reduced API latency by 40% using Redis** in memory cache.

PROJECTS

• Reddit Clone

- Successfully replicated Reddit using a **Typescript, NodeJS, Postgres, and GraphQL** backend, supported by a **NextJS** frontend with modular React hooks.
- Designed **custom caching** to implement responsive GraphQL mutations and seamless pagination.
- Supported **server-side rendering** using NextJS and streamlined deployment onto Heroku using **Docker images**.
- Leveraged Redis to implement authentication using **session tokens** and forgot password tokens.

• LiviHood

- Developed a web app that allows users to help neighbours who are more vulnerable to COVID by completing tasks such as shopping in populated grocery stores.
- Created a **REST API with NodeJS** to manage personalized tasks for each user using **JWT** for authentication and **MongoDB** for persistent data store.
- Built an interactive UI using **React** and integrated the Google Maps API to visualize locations of tasks.
- **Automated the test pipeline by leveraging Jest and Supertest** to ensure a flawless production deployment.

• Visual Speech

- Created a web app that allows visually impaired users to communicate with hearing impaired users.
- Integrated Google's Text-to-Speech and Speech-to-Text APIs with **Cloud Firestore in an Express backend**.
- **Architected a modular frontend** with reusable components using **React hooks**.

• Space Adventure

- Designed an infinitely scrolling game using **Java** and leveraged OOP principals to create a variety of enemies and obstacles to shoot through and dodge.
- Collaborated in a team of 3 and **utilized Jira for task and project management**.