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%, Operating Systems - Ongoing.
  - **Awards:** Dean's Honour Roll, Trek Excellence Scholarship (top 5%), Sauder School of Business Scholarship.

SKILLS

- **Languages**: JavaScript, TypeScript, Java, Python, C++, HTML/CSS.

- **Frameworks and Tools**: Node.js, Express, MongoDB, React, GraphQL, Next.js, Flask, Git, Jest, Docker, PostgreSQL.

EXPERIENCE

- **DoorDash** ⌕   Toronto, ON
  Incoming Software Engineer Intern   *May 2022*
  - Incoming Software Engineer Intern at DoorDash, an online food ordering and food delivery platform.

- **Luscinia Enterprises** ⌕   Vancouver, BC
  Software Engineer (Part-Time)   *Dec 2020 - Current*
  - Completed coding of Hiring Service prototype **50% ahead of schedule,** leveraging Next.js to support serverless functionalities.
  - **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.
  - **Collaborated in a team of 3** to create client web portals for students and teachers using **React**.

PROJECTS

- **Reddit Clone** ⌾   *Jul 2021*
  - Successfully replicated Reddit using a **Typescript, Node.js, PostgreSQL, and GraphQL** backend, supported by a **Next.js** 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.

- **LiveliHood** ⌾   *Jan 2021*
  - 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 Node.js** 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** ⌾   *Jan 2021*
  - 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** ⌾   *Jun 2020*
  - 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.**