JEFFERY XIE

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EDUCATION

UNIVERSITY OF SASKATCHEWAN
Bachelor of Science – Computer Science Major   SEP 2018 – JUN 2022

WORK EXPERIENCE

WINNERS | SALES ASSOCIATE   SEP 2024 - PRESENT
- Built an Apple Shortcut that automates calendar syncing with WorkJam, saving time for team members.

TELUS INTERNATIONAL | ONLINE DATA ANALYST   FEB 2024 – SEP 2024
- Verified the accuracy of AI-generated data, improving the online experience for millions of users.

VRETTA | SOFTWARE DEVELOPER   SEP 2022 – APR 2023
Improved the e-learning experience for students across Canada through a web application that runs standardized provincial tests, supporting thousands of daily users with varying devices, browsers, and learning accommodations.
- Developed Python, SQL, and shell scripts to automatically verify and insert thousands of student and teacher accounts into the database, significantly reducing the data processing time by 3-4 hours per semester.
- Enhanced real-time features such as chat systems, user presence detection, and online/offline indicators, scaling to hundreds of concurrent users utilizing AWS Lambda, DynamoDB, and WebSockets.
- Conducted load testing on critical application components with K6 and automated tests with Selenium and Browser Stack, saving 2-3 hours of manual testing per cycle.

Technologies Used: *Angular.js, TypeScript, Node.js, Express, MySQL, AWS, Selenium, SCSS, and Python*

PROJECTS

JOB ASSISTANT FIREFOX EXTENSION   AUG 2024 - PRESENT
A Firefox extension that compares user skills with job postings and generates tailored cover letters.
- Built the frontend with React.js, TypeScript, and MaterialUI; secured user data with CryptoJS encryption.
- Developed a backend API with Node.js and Express that integrates with the MistralAI API for generating customized cover letters based on user data and job requirements.

POKÉMON GAME | CODE 🔗 | DEMO 🌐   JUN 2022 – SEP 2022
A Pokémon-themed clicker game that was inspired by games like Cookie Clicker and Clicker Heroes.
- Used Next.js Images to optimize images for all screen sizes, reducing the initial load time for the home page by up to 8 seconds and network payloads by approximately 22MB.
- Achieved a score of 85-100% for performance, accessibility, best practices, and SEO via Google Lighthouse, and set up continuous deployment (CD) for the application using GitHub Actions.
- Created several automated tests using Cypress to automatically test major components of the application.

Technologies Used: *Firebase, Next.js, TypeScript, Redux, SCSS, Cypress, Framer Motion, and MaterialUI*

SKILLS AND TECHNOLOGIES

- **Languages**: JavaScript (ES6), HTML5, CSS3, Python, Java
- **Frameworks:** React.js, Next.js, Angular.js, TypeScript, Redux, SCSS, MaterialUI, Tailwind
- **Server & Cloud:** Google Firebase, DynamoDB, MySQL, Express, Node.js, AWS
- **Other:** GitHub, GitLab, Selenium, Cypress, Figma