JEFFERY XIE

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EDUCATION

UNIVERSITY OF SASKATCHEWAN

Bachelor of Science - Computer Science Major   SEPT 2018 – APRIL 2022

SKILLS AND TECHNOLOGIES

- **Languages**: JavaScript (ES6), HTML5, CSS3, Python, Java
- **Libraries & Frameworks:** React.js, Next.js, TypeScript, Redux, SCSS
- **Server & Cloud:** Google Firebase, Netlify, Heroku, MongoDB, Express, Node.js
- **Other:** Git (GitHub/GitLab), Jest, Enzyme, Cypress, CI/CD, Docker, Agile

PROJECTS

POKÉMON GAME | CODE 🔘 | DEMO 🌐   JUNE 2022 – CURRENT

A pokémon-themed incremental 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 ~22MB.
- Achieved a score of 85-100% for performance, accessibility, best practices, and SEO via Google Lighthouse.
- Created several end-to-end tests using Cypress to automatically test major components of the application.
- Implemented continuous deployment (CD) for the whole application using GitHub Actions.

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

POKÉDEX | CODE 🔘 | DEMO 🌐   FEB 2021 – FEB 2022

A pokédex that displays information about every pokémon in a responsive and modern UI.

- Developed a loading screen with 300+ pokémon facts scraped from the Internet using Python, improving the user experience during long loading times.
- Implemented a unique interface with 10+ colour themes that adapt to the selected pokémon, helping to catch and retain user attention.
- Implemented lazy-loading images and pagination to improve performance on pages with 200+ images.
- Created user feedback components with MaterialUI snackbars and alerts to reduce user confusion for difficult tasks and make them easier.

Technologies Used: *MongoDB, Express, React.js, Node.js, Redux, MaterialUI, Python, Netlify, and Heroku*

WORK EXPERIENCE

ESSO GAS STATION | Gas Station Attendant   OCT 2016 – APR 2017

- Answered phone calls for tow calls and other inquiries.
- Maintained a clean and fully stocked work environment.
- Processed customer payments and performed mid-shift deposits and cash-outs.