

Alex Xie

FULL STACK DEVELOPER · SOFTWARE ARCHITECT

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Highlights of Qualifications

- Tech Stack: **TypeScript, React, Angular, C#, ASP.NET, Python, Django, SQL Server, MongoDB, C/C++, PHP**
- **Adaptive** Technologist: Proficient in various programming languages, quickly mastering new systems and tools.
- **Quality-Driven** Developer: Upholds **SOLID** principles, creating high-quality, maintainable code.
- Proactive **Self-Starter**: Independently learns and applies new technologies with minimal supervision.
- **Precision-Focused** Professional: Demonstrates meticulous attention to detail for superior product quality.
- **Technical Communicator**: Excels at simplifying complex technical concepts for diverse audiences.
- **Collaborative** Team Member: Fosters transparency and a positive work culture in cross-functional teams.

Work Experience

Ansys

SOFTWARE DEVELOPMENT INTERN

Waterloo, ON

May, 2022 - Apr, 2023

- Implemented a robust batch user-subscription management feature in a **RESTful** web architecture incorporating **AngularJS** and **ASP.NET**.
- Delivered high-quality code following SOA principles accompanied with **unit tests** in **C#**.
- Identified and Addressed data encryption deficiencies in the front-end design based on **MVC design pattern** through refactoring, enhancing data security and integrity.
- Accomplished context-specific tasks such as handling content submission requests, involving **MongoDB** data management and seamless email communication with external submitters, streamlining the content management process.
- Developed a comprehensive workflow diagram for a brand new marketplace platform using **MS Visio**, providing a high-level **architecture design** for the project team and stakeholders.

Fundscrapper Capital Inc.

FULL STACK DEVELOPER

Toronto, ON

Sep, 2021 - Dec, 2021

- Generalized and Customized frontend UI components using object-oriented principles in **TypeScript** and **React**, improving user interface consistency and code reusability.
- Maintained and Enhanced automated tests daily, employing **Selenium** and **Cucumber.js** for end-to-end testing and **Postman** for API testing. Utilized data isolation and validation strategies to reduce test fragility and ensure reliable results.
- Developed and Implemented a comprehensive procedure for checking customer sanction status, from fetching and parsing sanction lists with **PHP** and **MS SQL Server** to comparing our customers and identifying potential matches.
- Migrated essential business logic from a **PHP-jQuery** codebase to a new **React** application, facilitating a seamless transition and continuity of business operations.

Indie Travel

SOFTWARE DEVELOPER

Toronto, ON

Jan, 2021 - Apr, 2021

- Developed the web application's onboarding interface using **React** and **Material-UI** to enhance user experience.
- Programmed a tool in the app's front-end to enable user to interact with another tour provider's application. Coded and tested target application's Api using asynchronous **TypeScript** and **Postman**.
- Implemented a user avatar system leveraging **AWS S3** services, providing a more personalized user experience.
- Structured the user help center by integrating Ghost CMS and **Docker**, increasing user support and accessibility.

Project Experience

SynPage

LEAD SOFTWARE ARCHITECT

Sep, 2022 - present

- Developed and implemented a web platform that delivered interactive tutorials to audiences using **React** and **Django**, enhancing user engagement and learning experience.
- Provisioned a streamlined approach to build **Browser extensions** with **React**, allowing for seamless extension development and deployment.
- Established a robust **CI/CD** pipeline using **Jenkins**, facilitating efficient and automated deployment of the platform to **Azure**.
- Provisioned a creative research into **web accessibility** and **Levenshtein distance**, enabling web elements to be located based on any human-readable description of the element.
- Utilized GPT API to generate tutorials as if calling a RESTful API, providing dynamic tutorial based on user's need.