

Alex Xie

SOFTWARE DEVELOPER · COMPUTER ENGINEERING STUDENT

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Highlights of Qualifications

- Self-motivated developer, inspired by translating real world business models into computer programs.
- Keen problem solver who learns quickly by integrating previous knowledge and experiences.
- Clean coder who bears best practices in mind and delivers easy-to-understand code.
- Humble learner who endeavors to solve a problem independently but seeks for guidance when necessary.

Technical Background

Languages	JavaScript/TypeScript, C#, C/C++, HTML&CSS, PHP, SQL, Java, Python
Runtimes and Frameworks	AngularJS, ReactJS, ASP.NET, Redux, NodeJS, Material-UI, jQuery, Jest, Cucumber.js, Selenium, NestJS
Dev Tools	Azure DevOps, Git, Visual Studio, Visual Studio Code, MongoDB, PostgreSQL, AWS S3, Postman, Docker, Unity

Work Experience

Ansys

SOFTWARE DEVELOPMENT INTERN

Waterloo, ON

May, 2022 - August, 2022

- Implemented a batch user-subscription management system through the integration between AngularJS and ASP.NET.
- Identified and performed refactoring on data encryption deficiencies in the front-end design based on MVC design pattern.
- Cooperated with fellow colleague to investigate and fix performance issues on a high-demanding api endpoint through peer coding.
- Accomplished context-specific tasks including handling content submission requests, which involves MongoDB data management and email communication with external submitters.

Fundscrapper Capital Inc.

FULL STACK DEVELOPER

Toronto, ON

Sep, 2021 - Dec, 2021

- Provisioned a way of generalizing and customizing frontend UI components based on object-oriented React.
- Maintained part of the automated tests on a daily bases, using data isolation and validation to reduce test fragility.
- Developed a full procedure of checking sanction status on the site's customers from fetching and parsing the list to store in our database (with PHP and MS SQL Server) to comparing our customers to the list and displaying the suspects.
- Migrated essential business logic from the current PHP code base to the company's new React application.

Indie Travel

SOFTWARE DEVELOPER

Toronto, ON

Jan, 2021 - April, 2021

- Built the user interface for the web app's onboarding pages using React and Material-UI.
- 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 JavaScript and Postman.
- Implemented user avatar system using Amazon S3 services.
- Structured the user help center using Ghost CMS and docker.

Project Experience

Dreamy Duels

UNITY/C# PROGRAMMER

Online

July, 2020 - present

- Outlined and realized the action value evaluating standard for the game's AI, enabling it to be able to adapt to continuously increasing game content (cards) without specific configuration.
- Collaborated with other developers and designers to enrich playable content in the game.
- Designed generalized unit test cases based on bugs reported by players in pursuit of game reliability and pre-release fault prevention.
- Refactored part of the project to allow higher code re-usability and a player programmable editor. Contributions involve defining unit operations and effects in the game and replacing the code for previously hard-coded cards with unit functions.