Joseph Hu

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Skills

Languages   Go · Typescript · Javascript · Python · C# · Java · SQL · C++ · Ruby
Technologies   Node · React · Redux · GraphQL · ASP.NET · Docker · MongoDB · Rails · Git

Experience

Adeptmind | Full-Stack Developer   Aug 2021 – Present
- Overhauled **image resizing pipeline** to support multi-sized variants improving TTI and SEO scores
- Designed **background colour detection** algorithm for images, integrated it into our **data processing pipeline** (**Python**) and applied it on the frontend to give a consistent look to our product catalogue
- Currently improving our **Prefect** integrations to use the latest best-practices in order to increase maintainability, scalability, and engineering efficiency

StackAdapt | Software Developer   Jan 2021 – Apr 2021
- Contributed towards significantly increasing the productivity of customers by developing several core components of a bulk-editor feature using **React/Redux** in **Typescript**
- Modified **Rails** backend and **Go** micro-services to introduce new datasets into user-requested reports
- Ensured code quality by actively participating in **code reviews** and promoting unit tests on the frontend

Thomson Reuters | Software Developer   May 2020 – Sep 2020
- Developed web pages and API endpoints using **ASP.NET MVC** framework handled by **1,000+** clients
- Investigated numerous complex bugs by deep-diving into a multi-tiered codebase with **16,000+** files

PointClickCare | Software Engineer   Sep 2019 - Dec 2019
- Developed security functions for numerous API endpoints using **Java/Spring** to prevent JSON injection
- Utilized **Selenium** and the **POM** to create both unit and E2E tests, increasing code coverage by **~10%**
- Created stored procedures and queries using **SQL** to manage and update **100+** production databases

Finastra | Software Developer   Jan 2019 – Apr 2019
- Facilitated the **migration** of message-oriented middlewares resulting in a more maintainable codebase
- Developed and updated a robust set of API endpoints with **ASP.NET** given a set of specifications
- Implemented a system for dynamic endpoint retrieval from **design to production** using **SQL** and **C#**
- Refactored an existing HTTP request factory to use template types, saving **100+ lines** for each model

Projects

DevRacer |
- Created an online multiplayer typing game for developers using **React**, **Go**, and **MongoDB**
- Designed a complex **authentication** scheme incorporating **OAuth** providers, **JWT**, and **refresh tokens**
- Incorporated **Redux** to manage client state and **GraphQL** to increase flexibility of data retrieval

UW Blueprint - Sistering |
- Currently working as a **senior developer** at **UW Blueprint** – a student-run initiative to help build tech solutions for non-profits. We are creating a volunteer scheduling system for the Sistering organization.

Education

University of Waterloo | Bachelor of Computer Science | 91% Major Average | Sep 2017 – Dec 2022