

Xin Hao Zhang

Software Developer • UWaterloo Computer Science 2021

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EXPERIENCE

Coursera | Software Engineer Intern, Degree Experiences

Scala, Aurora

September 2020 - present | Remote

- Working on the degree experiences backend

Facebook | Frontend Engineer Intern, Lightweight Ads Experiences

React, Relay, GraphQL

September 2019 - December 2019 | Menlo Park, CA

- Created components for the boosted post ads creation and editing flows, including a multi-media selector and a cropping tool which enabled the selection, upload, and cropping of media from various sources
- Added support for video ads in boosted posts by converting video upload logic for new infrastructure

MongoDB | Software Engineer Intern, Query Team

C++, JavaScript

May 2019 - August 2019 | New York, NY

- Improved features of the MongoDB query language by adding support for index hints in update command and updating the oplog replay optimization
- Fixed various bugs in query language and verified changes with unit and integration tests
- Worked with team to refactor mapReduce command to use the more optimal aggregation framework

Index Exchange | Software Engineer Intern

Perl, Angular 6, Node, Go

September 2018 - December 2018 | Kitchener, ON

- Implemented a standardized navigation wrapper in Angular 6 to be used in all future web services
- Prototyped service to display pipelines, build statuses and test coverage from Gitlab
- Improved throughput of Perl daemons by identifying and refactoring inefficiencies in regex usage
- Eliminated hard-coded static lists used in Node API by migrating data to a SQL database and caching query

Peekapak | Software Engineer Intern

React, SASS, Java

January 2018 - April 2018 | Toronto, ON

- Built features of a platform providing social-emotional learning curriculum to educators
- Created Java servlets to retrieve account data from DynamoDB and assets from AWS
- Redesigned and built internal content editing platform from ground up to be more scalable and user friendly
- Implemented pricing plan pages and real-time user engagement dashboards to convert users to premium plans

Sunnybrook Research Institute | Developer Intern

Matlab

July 2016 - August 2016 | Toronto, ON

- Developed ultrasound data manipulation programs for essential tremor treatments using MATLAB
- Enhanced data sampling and analysis of microbubble cavitation program
- Created a GUI program to adjust chemical shift artifacts in thermal dose maps collected from clinical trials

PROJECTS

UW Blueprint | Project Developer

React, Node, MongoDB, Firebase, PostgreSQL, Flask

May 2018 - present

- Student team partnering with non-profits and social enterprises to build technical solutions
- Previously worked with a social enterprise to create a minimum viable product to track recycled plastic in India through the supply chain
- Working with non-profits such as Social Venture Partners to create web platform to help allocate funding to other organizations

EDUCATION

University of Waterloo - Bachelor of Computer Science

2016 - 2021