

NEAL ZHAO

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SKILLS

Languages & Frameworks

C/ C++

Java

SQL

PHP

Python

Matlab

Shell Scripting

HTML/ CSS

JavaScript/ TypeScript

Node.js/ Express.js

AngularJS/ Angular2

Bootstrap

RxJS

D3.js

jQuery

Databases:

Azure Cosmos DB

MongoDB

CouchDB

Relevant Courses

Object-Oriented Programming

Functional Programming

Database Management

Algorithm Design

User Interfaces

Software Architectures Design

Software Testing

Distributed Systems

Computer Networks

Data Structure

Operating Systems

Compiler Design

Tools

Visual Studio Code

IntelliJ/ Eclipse

Sketch/ Photoshop

EDUCATION

Computer Science/Software Engineering Option, Co-op 09/2014 – 04/2019

University of Waterloo

WORK EXPERIENCE

Back-end Developer, Finastra (D+H) 05/2018 – 12/2018

- Creating and maintaining back-end services such as payment initiation service using Node.js and Express.js framework
- Developing platform modules such as reliable communication module that can be used across all services
- Working closely with architectures and familiar with data structures and design patterns
- Creating unit & automated tests and executing them on Continuous Integration pipeline
- Experience in VSTS and various Azure services such as Service Bus and Cosmos DB
- Experience developing and deploying Docker Containers on Kubernetes

Front-end Developer, Finastra (D+H) 09/2017 – 12/2017

- Created a UI Toolkit that enables other developers in the company to build consistent UI by using Angular and Google Material Design
- Upgraded an AngularJS application to a hybrid Angular application so that both AngularJS and Angular2+ components can be used

UX Designer/ Developer, BlueDot 01/2017 – 04/2017

- Worked closely with designers and bridged the gap between graphical design and technical implementation
- Designed and implemented a data explore web application and presented to the CEO

PROJECTS

Abstract Data Explore, JavaScript 01/2017 – 03/2017

- Designed and implemented a data explore that can join datasets, filter data column in 4 different ways, generate filter expressions and visualize datasets in multiple ways.
- Optimized performance on processing extremely large datasets

Try it (sample data provided): <https://ruihengzhao.github.io/Abstract-Data-Explore/>

Camunda AMQP1.0 Custom Connector, Java 07/2018

- Built a custom connector that can send/receive messages to/from Azure Service Bus via AMQP1.0 protocol for Camunda which is a platform for BPMN workflow automation

Code on GitHub: <https://github.com/RuihengZhao/Camunda-AMQP1.0-Custom-Connector>

Remote Procedure Call Implementation, C++ on Linux 03/2018

- Implemented an RPC protocol using the client-server model and TCP that allows a client to request a service from a server located in another computer without having to understand the network's details

Code on GitHub: <https://github.com/RuihengZhao/Remote-Procedure-Call>

AI Experiments, Python & Matlab 01/2018 – 04/2018

- Implemented a few AI Algorithms, include Text Categorization with Decision Trees, Inference in Bayesian Networks, Naïve Bayes Learning, Expectation Maximization and Decision Networks

Code on GitHub: <https://github.com/RuihengZhao/AI-Experiments>