

JohnHuang

Software Engineer

Contact

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Languages

Java
HTML5
CSS3
JavaScript
Python
C#
C++
C
SQL
VB.NET
PBASIC

Front-End

Angular
ReactJS
jQuery

Tools

Git
Perforce
AWS
Visual Studio
Eclipse
Docker
Arduino

Interests

RCM Grade 10 pianist
Clarinetist
Adobe Photoshop
Paint Tool SAI
Yoga
Web Design
Board Games
Video Games

Work Experience

Action

New York City, Jan 2019–Apr 2019

Full Stack Developer

- Modularized company's platform by breaking down monolithic infrastructure into microservices using Spring Framework
- Implemented caching mechanism of large datasets to increase performance by 80%
- Reduced redundancy and coupling in code base by connecting to new web services in Java
- Enhanced user experience by adding animations and feedback using Angular

The Weather Network

Oakville, May 2018–Aug 2018

Software Engineer

- Implemented Python and Shell scripts to download Gridded Binary files from Amazon S3 to create PNG files of worldwide weather maps
- Improved Python scripts for PNG conversion and tiling by decoupling input dependencies in file handling code; reduced code repetition and increased file compatibility
- Animated real-time wind particles with National Oceanic and Atmospheric Administration wind data using Mapbox GL JS library and WebGL

Carbonite

Oakville, Sept 2017–Dec 2017

Software Engineer

- Developed authentication module for company's cloud backup system using C# to properly integrate ASP.NET Web API
- Built multiple RESTful API services with versioning and backwards compatibility using ASP.NET Web API

BDO Solutions Technology

Mississauga, Jan 2017–Apr 2017

Full-Stack .NET Developer/Consultant

- Produced two corporate websites with ASP.NET MVC 6 Framework design pattern using C#, for Corporate Service Providers and the British Virgin Island government
- Optimized website performance by 90% by switching to client side code using AngularJS and jQuery

ArcelorMittal Dofasco

Hamilton, May 2016–Aug 2016

Programmer

- Developed, tested, and launched 2 Windows Form applications to manage daily reporting by implementing ADO.NET using VB.NET and retrieving data from Oracle databases with SQL
- Archived report data into Microsoft Access using ADO.NET and SQL
- Actively participated in project management by organizing meetings and discussing specifications

Projects

Weather To Bring It

- Conceptualized and created a web application using ReactJS to be able to automatically update weather conditions and suggest to user what to bring outside
- Incorporated RESTful API calls provided by the Weather Network at Hack Western 4

Visual Function Simulator

- Worked on a team to develop a graphing calculator that displays the graph of simple functions in Java
- Implemented a visual GUI using Swing and AWT
- Used object-oriented programming and enforced data abstraction for a clean user interface

Education

University of Waterloo:

Candidate for Bachelor of Software Engineering, Class of 2020