

JohnHuang

Software Engineer

Contact

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Languages

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

Full-stack

AngularJS
ReactJS
jQuery

Tools

Git
Perforce
Visual Studio
Eclipse
Arduino

Interests

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

Work Experience

The Weather Network

May 2018–Aug 2018

Software Engineer

- Devised a Python script and Shell script that downloads Gridded Binary files from Amazon S3 and uses the data to create PNG files of world wide weather maps
- Improved company PNG conversion and tiling Python scripts by generalizing file handling code to be abstracted from inputs, reducing code repetition and increasing file compatibility
- Animated real-time wind particles with National Oceanic and Atmospheric Administration wind data using Mapbox GL JS library and WebGL
- Did a proof of concept using Mapbox GL JS with ReactJS in order to create compatibility with other Javascript libraries

Carbonite

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
- Enriched user experience by changing returned HTTP status codes and error messages using Python

BDO Solutions Technology

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
- Queried and maintained data using SQL Management Studio and used SQL Server Profiler to troubleshoot and resolve performance issues

ArcelorMittal Dofasco

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
- Analyzed productivity of multiple departments in the company by querying Oracle databases using SQL in order to give statistical data to suggest improvements for company efficiency
- 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