

DAVINDER SHINH

4B Honours Geomatics with Computer Science Minor and Co-op | 20486419

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SUMMARY AND QUALIFICATIONS

- Very extensive experience with JavaScript (jQuery, AngularJS, Mapbox, AG-Grid, ArcGIS, SharePoint, SquareSpace, PhoneGap and many more)
- Very extensive experience with SQL (SQL Server, Business Objects Universe, SQLAnywhere, SQL Alchemy, Complex Queries and more)
- Extensive experience with Java (Android Studio, Paho MQTT, GSON, Event Stream Processing, Socket Programming)
- Extensive experience with Python (ORM SQL Alchemy, Flask and Redis)
- Worked in AGILE SCRUM environments using both TFS, GitHub and SourceTree for code management
- Worked on the client, server and database for a production level application
- Geomatics degree provides exceptional knowledge with spatial data and mapping software
- Due to the wide variety of languages and libraries I already know, learning new ones is very fast
- Working towards a Computer Science minor at university
- You can view my site at DavinderS.Github.IO/Resume this site is custom built utilizing JQuery

EXPERIENCE

Application Developer SAP

Waterloo, ON
Winter 2016

Worked on a IOT Transformer

- Created an MQTT client using Java and Paho MQTT library
- Worked directly with solutions architect to determine best solution for project
- Received sensor data from MQTT protocol as JSON and used GSON to parse and reformat data
- Once data was converted, sent it into a StreamingLite project
- Created CCL/CCLScript to be run in StreamingLite to aggregate and filter incoming data
- Integrated machine learning code from analytics tool to also be used in StreamingLite project
- Created a presentation explaining the capabilities and limits for CCL/CCLScript
- Presented to the development team and executives, presentation consisted of explanation, live demo and question and answer session
- Wrote extensive comments and documentation to allow other developers to take over with minimal issues

Full Stack Developer Huang and Associates Analytics (Startup)

Toronto, ON
Spring 2015

Worked on a production level application for a startup

- Worked with a team of 3 other co-op developers under 1 front-end manager and 1 backend manager
- Stored code using Sourcetree (Git) and worked using multiple branches
- Worked extensive hours before application demos in order to ensure a working application
- Helped younger co-ops with some of the more difficult code and best practices
- Provided extensive document due to complexity of the code and changing developers

Database

- Wrote both DDL and DML statements for an SQL database
- Initial database connection and configuration was already completed, modified tables as needed for specific pages

Server

- Used SQL Alchemy to query the database and Flask to create the API routes
- Sent back appropriate error codes and messages in order to improve debugging
- Utilized Redis to save and pull temporary information
- Followed strict guidelines and heavily commented in order to improve code clarity

Client

- Used a wide array of libraries/frameworks including AngularJS, Angular Materials, AGgrid, Bootstrap, flowJS and more
- Each page had a unique controller, template and service that all followed similar design patterns to keep all pages consistent. It also utilized directives for common elements
- Created a library that held AG-grid functions. This library handled the initial set up and cell-rendering functions for all grids throughout the application
- Followed an online style guide in order to keep the code behind all pages as similar and easy to follow as possible

GIS Developer / Programmer Analyst Toronto Transit Commission

Toronto, ON
Spring 2015

- Edited existing Business Objects Universe for the reports which required extensive SQL
- Used Crystal Reports to create multiple reports for internal users
- Created reports using WEB Intelligence rich client for internal users
- WEBI reports use the same universe as crystal reports so new SQL was not required
- Redesigned the universe to be more user friendly so users could create ad-hoc reports
- Tested reports to verify the data was accurate and fixed the visual display, so that it matched the old reporting system

Front-End Web Developer Envision IT

Mississauga, ON
Fall 2014

- Developed the front end of a vacation tracking software (Internal employee provisioning software)
- Used JavaScript, AngularJS, JQuery and HTML/CSS to develop application
- Worked in an AGILE environment
- Used TFS with Urban Turtle to manage code
- Worked alongside the back-end developer to help my client communicate with his REST web service
- Had to convert application to work with IE8

Application Developer Communitech

Kitchener, ON
Winter 2014

- Developed NodeJS based application that primarily utilized Phonegap to allow for development across both IOS and Android as well as Mongoose (MongoDB) and BackboneJS for the back end
- Was given a template that took care of setting up the database and provided an example of a few webpages and some interaction between the server and the client
- Used the examples to build a Schema and used existing methods to post/get/update and delete information from the database

- Used a wireframe created by another student to create the HTML/CSS for the application
- Used GitHub to save files and Heroku to show the client progress for the application

RELEVANT COURSES

- CS 436 - Networks and Distributed Computer Systems
- CS 430 - Applications Software Engineering
- CS 338 - Computer Application in Business: Databases
- CS 330 - Management Information Systems
- CS 234 - Datatypes and Structures
- CS 230 - Introduction to Computers and Computer Systems
- CS 135 - Designing Functional Programs
- CS 116 - Introduction to Computer Science