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Electrical and Computer Engineering · University of Waterloo

Skills

- Software development and OOP design using JavaScript, Java, C#, C++, SQL, Visual Basic, and Python
- Frameworks & tools: Arduino, AngularJS, Bootstrap, Node JS , Express, Android, and Firebase
- Building custom websites and full stack web applications from scratch and management of web projects
- Efficiently designing API's and data structures to produce desired software products and features
- Experience with Android and single page application architecture

Professional Experience

SAP. — Software Developer, Emerging Technologies, Waterloo, winter 2017

- Embedded system development (Arduino)
- IoT hardware and software development
- Java plugins and Node API backend development

Vibe SMG. — Software Developer, Etobicoke, summer 2016

- Developed backend **Node modules** and **RESTful API's** utilizing asynchronous methodologies to interact with database
- Wrote **database, front end, and back end** logic to maximise data transmission efficiency depending on use case (reporting, user data, etc…)
- Developed a **full stack**, multitenant, **responsive** web application
- Used **Angular** and state based routing to implement a robust **single page web application**

Purolator Inc. — Web Developer, Mississauga, fall 2015

- Worked on the development of Purolator web applications using **JS** and **Bootstrap** such as E-Ship Vision
- Developed **Visual basic** and **JS** applications and scripts to **automate** individualized large scale communications
- Automated various company processes pertaining to **data accessibility** and organization using Visual Basic and **C#**

Projects

SmartOutlet (https://github.com/danlee4987/smart_outlet) winter 2017 – Present (1st place winner at EngHacks)

- Smart home automation system that can mount any type of interface to control devices in a home
- System was tested to take in input signals from phone applications, Amazon Alexa, and a Myo Armband #embedded systems #Java #NodeJS #Arduino #High voltage application

GymFlow (https://github.com/Elwazirali/GymFlow) summer 2016 – Present

- A social network platform geared towards gyms and sport teams
- Enables users to post their progress, ask questions, engage in conversation, and support/rate each other
- Users are able to sign up and join various groups #ionic #SPA #Android #Angular #firebase #JSON #ui-router

ChromeNavigation (https://github.com/Elwazirali/ChromeNavigation) summer 2016 – Present

- A chrome extension that uses voice recognition to surf the web and perform various functionalities
- Working on integrating x-box Kinect capability to control Chrome browser #JavaScript #Chrome #OOP #Extensions

Trendify (http://trendify1.heroku.com/) summer 2016 – Present

- A web application that performs sentiment analysis on a certain topic based on Twitter data #NodeJS #Angular #Bootstrap

Other projects as a core contributor: CoffeeMapping, AutoBeautify, Binary Doge, phraseEvolution

More on projects visit my state machine: http://alielwazir.herokuapp.com/#/projects