SPURRYA JAGGI

Aspiring Engineer | Keen learner | Passionate Programmer

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SKILL SET

Programming

- Java
- C#
- C++
- C
- Python

Web Development

- Angular
- Node.js
- Bootstrap
- jQuery

Database

- SQL
- MongoDb

Other

- PLC and FPGA
- Powershell
- MATHLAB

DEVELOPING SKILLS

- Embedded Systems
- Machine Learning
- Data Analysis
- Software Architecture

COURSES

Linear Algebra
Data and Algorithms
Introduction to Microprocessors and Digital Logic
Digital Computation Circuits

WORK EXPERIENCE

Software Developer — DBRS

- Worked with Entity Framework to develop full-stack features for web application directly used by the analyst.
- Developed Microsoft Excel plug-in to enable analyst to export their data.
- Scripting to migrate and validate data from Oracle to Microsoft SQL

Tech used : C# , MongoDb, Microsoft SQL , Anugular, Powershell , Excel DNA

Software and Web Developer — KnowRoaming

- Developed a GUI based test framework that manage all webpages.
- Full stack implementation of a web app to keep a track of the packages sent out to the customers.
- Implementing unit test cases and front-end development of web based application used by the customers

Tech used : Java , JavaFX , SQL , JDBC , Selenium , JavaScript , jQuery , PHP , Chai, Mocha

Infrastruture Security Analyst — Maple Leaf Foods

- Programmed a web-crawler to reduce the time for acquiring the data
- Got exposed to several security concepts and technologies.

Tech : Java , Selenium , FireEye, IronPort

</> PROJECTS

Pebilepsy — Hack the North

- Won top pebble award at Canada's largest Hackathon by developing a Nocturnal epilepsy tracker and prevention pebble application.
- Captured, stored and proccessed information and analysized it for developing accuracy.

Featured On : Hacker News, Challenge Post , Med Gadgets

Electronics Experiments

- **Sensor Calibration-** Calibrated an ultrasonic sensor to fit a curve which accurately informs the length of an object placed infront of it.
- **Fuel Cell Car-** Programmed a MSP430 microcontroller (in C) attached to a fuel cell car to control a fuel cell car to travel along a race track
- **Diode Bridge-** Built a diode bridge which converted alternating current to direct current and rectified the result.
- **Arduino Keyboard-** Changed Arduino firmware to behave like a keyboard.
- **NXT Robot-** Programmed a robot in RobotC using NXT to find and retrive objects on the floor.

Web and Android Applications

- **Crib** - Web Application for landlords and students in large groups to help discuss and negotiate more easily.
- **When is my exam?** Web Application that adds students upcoming exam schedule to google calendar.
- **FindMe-** Android application that retrives information about any store on Google Map including information such as email, hours, contact information
- **Temperature Map-** Allows the user to visually see the current temperature on world map

</>COMPETITIONS

Capture The Flag

- Second team to complete a set of programming challenges. These challenges improved my skills in:
    - Finding security vulnerabilities
    - Cracking hashed passwords
    - Network Analysis