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
- Passport
- Express
- Bootstrap
- jQuery
- Underscore

Database
- SQL
- MongoDb

Other
- PLC and FPGA
- Keil
- Powershell
- MATHLAB
- AutoCAD
- SolidWorks
- RabbitMQ
- Apache

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

💼 WORK EXPERIENCE

Software Developer   DBRS
- Worked with Entity Framework(ORM) and MVC 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.
- Scripted to migrate and validate data from Oracle to Microsoft SQL

Tech used : C#, MongoDb, Microsoft SQL, Anugular, Powershell, Excel DNA, Entity Framework, MVC, LINQ

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 : Jaav, 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 using Python 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 it 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

LEADERSHIP

- Alumni-Student Networking Director

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 implemented using Node.js, Socket.io and Branch.io. Implemented real-time poll.
- **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 1 and 2

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