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MANJINDER SINGH

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♀ New York

in msingh789

nsingh789

Software Engineer who is a fast learner, hardworking and a team player with a creative mind set for problem solving. My knowledge expands further to end user support, network topologies, it operations, front/back end development. I enjoy opportunities that require increasing levels of responsibility and professional growth. Recognized as a skilled leader who identifies high-potential opportunities and my superior focus and attention to detail combined with my knowledge of HTML5, CSS, Javascript, Ruby, Ruby on Rails, jQuery, SQLite/PostgreSQL makes me an ideal team member. I am able to prioritize the ability to adapt and address challenges quickly and creatively.

Skills

LANGUAGES & FRAMEWORKS

Rubv

Ruby on Rails

Javascript

Ajax

HTMI 5

CSS

Sinatra

React C++

C#

Assembly

METHODOLOGIES

Object Oriented Development

Test Driven Development

Agile Development

DB, TESTING & VERSION CONTROL

PostgreSQL

SQLite

ActiveRecord

RSpec

Git GitHub

Arduino

Education

New York City College of Technology BTECH Computer Engineering 2019 Jan. 2017 to Current

Mar. 2017 to Current

New York City College of Technology AAS Electromechanical Engineering 2017

Aug. 2013 to Jan. 2017

Educational Background

Computer Engineering

- Microcomputer architecture and the basic concepts used in the Personal Computer (PC) using C programming language.
- Assembly language programs to utilize and gain insight into machine level operations.
- Applications of principles of electrical circuit analysis to the solution of practical network problems, with emphasis on steadystate AC Circuits.
- Using Analog and digital techniques to take into account standards, precision, accuracy and sensitivity in the data-acquisition process.
- Programming concepts and software development techniques for computer controlled systems.
- Technologies, protocols, and techniques used to connect a computer network with other networks through the use of gateways.
- Local Area Networks (LAN) and Wide Area Networks (WAN) implementation, wireless networks implementation, network security, advanced switching and routing configuration, advanced TCP/IP configuration, and network management.

Electromechanical Engineering

- · Understanding electrical circuits, IC chips and their implementations.
- Coding with python and C/C++.
- Diagnosing/troubleshooting computer hardware and software issues.
- Creating 3-Dimensional designs using computer aided drafting.
- Developing embedded systems.
- Electrical manufacturing processes
- Developing IOT devices
- Understanding of mechanical hardware aspects and gear operations within PC.
- Advanced mechanics of pneumatic and hydraulic systems.
- Setting up multipoint communications.
- Study of OSI and TCP/IP models, data transmissions, transmission media, network topologies, network cabling system, IP
 addressing, TCP/IP suite, local area networks (LANs), wide area networks (WANs), wireless network, and network security.

Employment

Freelance Web Developer/Designer

Web Developer/Designer

Creating Web Sites for clients using HTML, CSS, Javascript, Ruby on Rails, jQuery.

Used the latest features of bootstrap for a clean UX experience

Managed client relationships, and finances and created timeline for projects

Projects

Mood Lamp

- Using the ESP32 micro-controller with onboard bluetooth and WiFi we developed an IOT device.
- Using Arduino IDE and C++ computer language.
- Developed a code to communicate with the micro-controller via WiFi.
- Implementation of RGB LEDS parameters and scopes.
- Implementation of IOS APP communication via WiFi.
- Implementation of mood sensors.
 Implementation of APP lights/brightness/ONOFF controller
- Development of hardware design via 3D printing.
- IOT Device technologies making it user friendly and consumer cost effective.

Lava-Typers

- Lava-typers is a javascript game that allows users to practice and improve their typing speed and accuracy through a fun and competitive game.
- This website was designed using Ruby on Rails, CSS, Bootstrap, Javascript, jQuery and postgresSQL.
- Set up database schema design and help implement React to front end.

Holiday Show Pi

- Using Linux operated device Raspberry Pi
- Implementation of hardwire design techniques using a breadboard, male to male/female jumpers, and Christmas lights.
- Implementation of software code for proper in-device functionality.
- Implementation of syncing methods and parameterization.
- implementation of brightness tools to user preference/friendliness.
- Strategic NPV solution cost effective design to result in higher revenue for holiday light shows.

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Awards

New York City College of Technology National Honors Society of Leadership & Success

Aug. 2017

Activities

- Robotics Technology
 Geometric configurations and classifications of robots
 - Drive components (electric, hydraulic, pneumatic)
 - Computer controls and interfacing, sensors
 - Data acquisition/handling and conversion

• Joining in on various developers to make IoT devices and to demonstrate the basic techniques of using a microprocessor or micro controller platform for IoT applications.

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