Syed W Shah

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EDUCATION

NYU Tandon School of Engineering (Brooklyn, NY) *May 2016*
B.S. Electrical Engineering / Minor Mathematics

SKILLS

Languages: Javascript, Java, Ruby, C/C++, Python, Ruby
Front-End: HTML, CSS, Javascript, jQuery, React, Bootstrap
Back-End: CRUD, RESTful Services, Node.js, Express.js, Ruby on Rails
Databases: NoSQL, PostgreSQL, MongoDB
MISC: JSON, AJAX, Version Control (Git & GitHub), HTTP & REST, Web App Architecture

PROJECTS (Electrical Engineering/Computer Science)

Parking App (CS) *Fall 2017*
- Created a responsive, Full Stack CRUD App which allows users to log where they parked their vehicles, provide a short description of when they plan to leave, and even view it on an interactive map
- Users can register and log in to the app using the app's authentication using the backend database
- Backend and Frontend created with NodeJS and ExpressJS

Live Earthquake Map (CS) *Summer 2017*
- Using real-time geospatial and earthquake data, a user-friendly GUI was created which allows users to view earthquakes occurring around the world
- GUI created using Processing library
- Map data obtained from Google Map Provider, utilized by the Unfolding Maps library
- Earthquake data parsed from USGS RSS feed
- Built entirely in Java by referring to documentation of tools mentioned above

VLSI 4-Bit Unsigned Adder (EE) *Spring 2016*
- Designed and built a 4-bit adder module using Cadence software
- Simulated and tested the transistors and circuit
- Created a report to document the process from start to finish explaining each step thoroughly

Wireless Wearable Device (EE) *Fall 2015 – Spring 2016*
- A wireless smart wristband which provides instant alerts for missing items via vibration or sound
- Researched relevant technologies and necessity, created an MVP, created a working prototype
- Implemented design with MCUs and Bluetooth modules which alert upon moving "too far" from valuables
- Logged daily reports, presented weekly project updates

Single and Multistage BJT Power Amplifier (EE) *Spring 2015*
- Designed and simulated frequency filters, waveform rectifiers, and BJT power amplifiers using PSPICE
- Prototyped and tested the circuit to ensure simulation and real-world results were consistent
- Satisfied the design constraints and successfully adhered to specification

WORK EXPERIENCE

Teaching Assistant – NYU *Summer 2013 – Spring 2016*
- Tutored Pre-Calculus, Calculus 1, Calculus 2, Linear Algebra, Differential Equations, Analysis, MatLab
- Engaged with students in private tutoring and in classrooms to support their learning and understanding

Student Aide—NYU Opportunity Program Fall 2012
- Scheduled meetings between potential candidates and director for scholarship
- Answered phone calls in a professional manner and assisted with any comments or concerns
- Filed important and confidential documents