Cassandra Newcomer

New York, NY - (917) 792-1958 - engineerwithoutfear@gmail.com

OBJECTIVE:

Seeking a fulltime position in Web Development or closely related field.

EDUCATION:

In-progress

FreeCodeCamp | New York, NY

Full Stack Web Development Certificate

Self-teaching web development using a 1,000 hour long, Javascript-centric, project-based open source curriculum.

Topics: Javascript, jQuery, Bootstrap, HTML5/CSS3, Angular,

React

City College of New York | New York, NY

Candidate for Bachelor of Engineering in Electrical Engineering

Completed

Columbus State Community College | Columbus, OH

Associate of Science – GPA: 3.6

Honors and Activities: Dean's List, Future Scientists of Ohio scholarship, Battelle Scholarship for Math and Science, Phi Theta Kappa, STEM Club

PROJECTS:

Personal Website (engineerwithoutfear.com)

- Prototyped first version's layout in Wordpress, then built second version from scratch using vanilla HTML/CSS/JS
- Wrote Python script to read a file directory and automatically generate html code for JS lightbox galleries
- Implemented jQuery workaround for header image loading prior to discovery of XAMPP
- Purchased domain and server hosting, configured .htaccess and other permissions/redirects

Weather Report App

- Built an in-browser application that displays the user's current location, weather conditions, and temperature
- Interfaced with an API to fetch JSON data containing user's geolocation, which is then fed to a second API to retrieve location-specific weather data
- Wrote front end Javascript to automatically format and present the data, including a matching weather icon for current condition and an
 interactive Fahrenheit/Celsius toggle
- Optimized for mobile/variable browser widths through a responsive design using media query breakpoints and Bootstrap's grid system

Random Quote Machine

- Created a responsive webpage that displays a random quote and tweeting apparatus
- Uses Twitter's Web Intents to pre-load quote into popup twitter box
- Quotes are massaged with RegEx and sources are hashtagged properly
- Selected quote is removed from array to prevent repeated viewing until array is exhausted, at which point it regenerates

WORK EXPERIENCE:

City College of New York, Physics Department

Physics Simulation Programmer

New York, New York

06/16-ongoing

- Assisted Professor in the Physics department building web animations of physics principles
- Used version control software and pull requests to collaborate with team via Github
- Built physics animations with p5.js library to be hosted on CCNY Science Sims Website
- Created documentation to onboard new assistants using github io pages and local Jekyll build server

Duro UASElectrical Engineer

New York, New York

05/15-08/15

• Researched and developed electrical systems for Autonomous Underwater Vehicle (AUV)

- Surveyed, selected, and purchased batteries considering size, weight, power, and cost constraints (SWaP-C)
- Performed trade studies of various electrical hardware (I/O devices, relays, CPU) for future integration efforts
- Collaborated with mechanical team on engine power requirements, as well as spatial orientation of batteries and wire management
- Managed migration of Duro UAS website to a more cost efficient hosting provider
- Created and maintained a Wiki for internal use
- Configured MySQL database for Wikimedia installation and drafted templates for employees to use when documenting hardware specs and project progress
- Condensed and summarized electrical team's project progress into weekly update reports for upper management

SKILLS:

Software: Git, Wordpress, Adobe Creative Suite, MS Office Suite, NI Multisim, Onshape (CAD), MATLAB

Languages: Javascript, HTML/CSS, Python

Frameworks/libraries: Angular, React, ¡Query, SASS/SCSS, underscore.js, Bootstrap

OS: Windows, Linux

Hardware: Breadboard prototyping, circuit design & construction, soldering, oscilloscopes, function generators

OTHER INTERESTS:

Marvel comics, sewing, edX courses, automotive repair, costuming, website design, Starcraft

Github: engineerwithoutfear – Portfolio: www.engineerwithoutfear.com