Michael Meding

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Education

Masters Computer Science

University of Massachusetts Lowell
May 2016

Bachelors Computer Science

University of Massachusetts Lowell
May 2015

Proficiencies

Languages

Java 7 & 8 ● ● ● ● ●
Python 2 & 3 ● ● ● ● ●
JavaScript ● ● ● ● ●
C/C++ ● ● ● ● ○
Firmware C (Atmel+Microchip)
Linux Bash ● ● ● ● ●
Assembly ● ● ● ○ ○
LaTeX ● ● ● ● ○

Databases

MySQL ● ● ● ● ●
MongoDB ● ● ● ● ○
Neo4j ● ● ● ○ ○

Web Technologies

AngularJS ● ● ● ● ●
Twitter Bootstrap ● ● ● ● ●
D3 ● ● ● ● ●
HTML5 ● ● ● ● ○
jQuery ● ● ● ● ○
CSS3 ● ● ● ● ○
Sass ● ● ● ● ○
SVG ● ● ● ○ ○

Other

Solidworks ● ● ● ● ○
ROS ● ● ● ○ ○
(Robot Operating System)

Experience

Senior Software Developer

Efacto Power | Jan 2017 - Present

- Designed a cloud based big data time series for storing and analyzing patterns in energy. This leverages the power of Hadoop and the OpenTSDB framework. Additional details of this can be found on my website listed above.
- Managing product development and production of the IoT gateways and sensors. This involves the electronics manufacturing processes from concept to production design.
- Developed the firmware for the water measurement sensor.

Software Developer

Outsmart Power Systems | Aug 2015 - Dec 2016

- Created a content management system for maintaining customer data on the web. This included responsive web design elements for both mobile and desktop using AngularJS.
- Built a websocket based IoT communication platform using Java.
- Designed custom and responsive D3 graphs for in depth energy analysis.

Projects

Web Based 3D Slicer

University of Massachusetts Lowell | 2015 - 2016

Wrote one of the first 3D print slicers to be deployed to the web. It included a Gcode analyzer with detailed settings input. This project was also tested on a 3D printer of my own design.

Solidworks Design

Massachusetts Bay Community College | 2015 - Present

Mechanical Engineering studies part time and have a background designing parts in Solidworks. Several of my designs are now in production applications for Efacto Power.