Sam McGrail

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TECHNICAL SKILLS

Languages: JavaScript, Python, Ruby, C/C++
Databases: SQL, MySQL, PostgreSQL
Software/Tools: D3.js, Linux/Unix shell-fu, git, GitHub, Heroku, Bootstrap, Photoshop, Rails
Hardware: IT maintenance, Custom PC construction, Bitcoin Mining, A/V configuration

PROFESSIONAL EXPERIENCE

PRIME   Boston, MA
UI Developer, Software Engineer   *October 2015 – March 2020*
- Created an interactive dashboard for transformer substation engineers in the field.
- Runs on an embedded system (IDD-200, PD-Guard, Delphi, Domino). Checks transformer maintenance equipment datalogs with industry standards / user set alerts. Improves worker safety by warning of potential faults, while maintaining uptime by accurately detecting false positives.
- Custom LAMP stack (P for Python) with JavaScript graphing tools.
- Extensive use of D3.js and Highcharts data visualization libraries allows sensor data to be presented more clearly. Phasor data presented with an interactive slider.
- Worked with a remote team spread across England, Romania, and East/West coast USA.

Launch Academy   Boston, MA
Junior Full Stack Web Developer   *May 2015 - August 2015*
- Worked in an immersive environment supplying over 400 hours of experience towards becoming a proficient full-stack developer.
- Actively collaborated with over 40 developers on a daily basis through paired programming
- Developed software applications with TDD (Test Driven Development) in mind using Ruby, Rails, PostgreSQL, JavaScript, jQuery & CSS.
- Incorporated strict best practices, including Agile methodologies.

Doble Engineering   Boston, MA
Laboratory Technician   *May 2013 - May 2014*
- Ran dissolved gas analysis (ASTM D 3612) on transformer mineral oil samples.
- Detected thermal and electrical problems through analysis of chromatogram data to prevent dangerous equipment failure. Rigorous testing process requiring knowledge of power systems and sensors
- Increased sample testing efficiency with visual basic macros for Excel spreadsheets.
- Improved time limited testing rate 20% by running an extra 40 samples on Saturdays.

Professional Musician   Natick, Boston, MA
Pianist   *June 2012 - May 2016*
- Played lounge music weeknights for 3-4 hours at various restaurants.
- Provided a sophisticated atmosphere for diners with solo jazz piano.
- Able to sight-read popular songs, take requests, and play for the audience in mind.
- Increased restaurant Yelp ratings with positive reviews, and helped bring in a crowd of regulars.
- Played with a jazz combo trio at local political fundraisers and events.

EDUCATION

University of Massachusetts Amherst   Amherst, MA
B.S. Neuroscience   *September 2009 - May 2013*