

Sam McGrail

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Experienced software engineer with 6+ years of work experience. Proven ability working with remote and onsite teams. Strong interpersonal skills and clear communicator. Ardent developer, seeking to bring their proficient full stack background to a set of new challenges.

PROFESSIONAL EXPERIENCE

doblePRIME

Boston, MA

Software Engineer, UI Developer

October 2015 – Sept 2021

Created an interactive dashboard for transformer substation engineers in the field.

- Developed custom software for a rugged high voltage transformer embedded systems project (IDD-200, PD-Guard, Delphi, Domino). Built alert state system and condition monitoring for power station assets. Custom alert system with SMS, email, on corporate network.
- Facilitated installation onsite at National Grid, Drax Power Station, requiring close customer interaction and development of precise user guides.
- Provided firmware updates, supported clients, and deployed devices in restrictive environments (heat, high voltage).
- Custom LAMP stack (P for Python) with JavaScript graphing libraries, highcharts, canvasjs.
- Extensive use of D3.js and various open source data visualization libraries (some altered for custom business requests) to allow sensor data to be presented more clearly. High density phasor data presented with an interactive polar chart with a control 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 pair programming
- Developed software applications with 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

- Performed 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.
- Built visual basic macros for lab report Excel spreadsheets, resulting in increased sample rate.

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.

EDUCATION

University of Massachusetts Amherst

Amherst, MA

B.S. Neuroscience

September 2009 - May 2013

TECHNICAL SKILLS

Languages: JavaScript/TypeScript (expert), Ruby (proficient), Python (proficient), C/C++ (rusty),

Databases: SQL, NoSQL, Mongo, QuestDB

Software/Tools: React, Webpack, Node, *.js, shell-fu, git, bash, custom VM curation

Hardware: Embedded systems, DIY PC construction, A/V configuration