Sam McGrail

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Full stack software engineer with 10 years of work experience. Proven ability working with remote and onsite teams. Strong interpersonal skills and clear communicator. Ardent developer seeking challenges.

PROFESSIONAL EXPERIENCE

AstraZeneca   Boston, MA
Senior Software Engineer   *Oct 2023 – (Current)*
- Developing in-house web applications for computational and medicinal chemists that use AI systems to enhance the drug discovery process.
- Creating integrations for users between internal and external applications using Python.
- Maintaining infrastructure with Github Actions, Kubernetes, ArgoCD.

Glaukos – Corneal Health Division   Boston, MA
Senior Software Engineer   *Sept 2021 – Sept 2023*
- Designed and developed medical device software using React, Redux, TypeScript, and Node.
- Created a GUI for a touchscreen that interfaces with an embedded system via Protocol Buffers.
- Overlayed targeting reticles and boundaries over resultant video feed using performant SVGs.

doblePRIME   Boston, MA
Software Engineer, UI Developer   *Oct 2015 – Sept 2021*
- Created an interactive dashboard for transformer substation engineers. Aggregated data from multiple hardware sources and set up a REST API for alerts and monitoring.
- Customized JavaScript visualization libraries to allow large datasets to be presented more clearly. D3.js based viz with SVG and HTML5, using canvas elements and WebGL to render tens of thousands of datapoints in the browser.

Launch Academy   Boston, MA
Junior Full Stack Web Developer   *May 2015 - Aug 2015*
- Developed software applications with test driven development in mind using Ruby, Rails, AWS, PostgreSQL, JavaScript, jQuery, Bootstrap & 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.
- 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.
- Able to sight-read popular songs, take requests, and play for the audience in mind.

EDUCATION

University of Massachusetts Amherst   Amherst, MA
B.S. Psychology – Neuroscience Track   *Sept 2009 - May 2013*

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, Ruby/Rails, C++
Software/Tools: React, Node, Docker, Kubernetes, socket.io, HTML, CSS, D3.js, CI, shell-fu