

Sam McGrail

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Experienced software engineer with 8 years of work experience. Proven ability working with remote and onsite teams. Strong interpersonal skills and clear communicator. Ardent developer seeking challenges.

PROFESSIONAL EXPERIENCE

Glaukos – Corneal Health Division

Boston, MA

Senior Software Engineer

Oct 2021 – August 2023 (Current)

- Designing and developing software for a first to market medical device, to create and deliver transformative therapies for patients struggling with glaucoma, corneal disorders, and retinal diseases.
- Creating a UI for a UV laser medical device, for medical professionals to treat keratoconus with a collagen crosslinking procedure. Supporting both hermetic operation and cloud support.

doblePRIME

Boston, MA

Software Engineer, UI Developer

Oct 2015 – Sept 2021

- Created an interactive dashboard for transformer substation engineers in the field.
- Extensive use of various javascript data visualization libraries (some altered for custom business requests) to allow large datasets to be presented more clearly. D3.js based viz with SVG and HTML5, using canvas elements and WebGL to render thousands of datapoints in the browser.

Launch Academy

Boston, MA

Junior Full Stack Web Developer

May 2015 - Aug 2015

- Worked in an immersive environment supplying over 400 hours of experience towards becoming a proficient full-stack developer. Collaborated with ~40 developers with daily 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

Sept 2009 - May 2013

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Ruby (proficient), Python (proficient), C, C++, NQC (basic)

Databases: SQL, Postgres, Objection ORM, mongo (basic)

Software/Tools: Frontend frameworks, React, Redux, Node, jest, css and varieties, *.js, shell-fu

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