Brian Rabern, PhD

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Technical Skills

- Python, JavaScript, SQL, HTML, CSS, XML, LaTeX
- FastAPI, Django, PostgreSQL, MongoDB
- React, Redux Toolkit, Docker, Git

Professional Experience

Full Stack Engineer and Co-Founder, Elogic, Ltd.   2020-now
- Developed a web application using React for introductory courses in logic.
- Deployed on Google Cloud Platform interfacing with the Z3 theorem prover.
- Licensed for use at major universities including Yale and Vassar.

Professor, University of Edinburgh   2013-now
- Published 30+ articles in top-tier peer reviewed journals. (see here)
- Managed large teaching team for Symbolic Logic with 400+ students.
- Received award for Outstanding Innovation in Digital Teaching (2020).

Education

Hack Reactor, Advanced Software Engineering Certificate.   2023
- Mastered domain-driven web development with JavaScript and Python.
- Constructed full-stack architectures with microservices and RESTful APIs.

Australian National University, PhD   2012
- Research area: Philosophy of language and logic
- Dissertation title: *The semantics of contextual shifting and sensitivity*

Recent Development Experience

MunroGo | *Python, JavaScript, FastAPI, React, Redux, MongoDB, Tailwind*   2023
A comprehensive guide to Scotland's 282 Munros that tracks climbs and statistics.
- Leveraged OpenWeather, Wikipedia, and GoogleMaps APIs for real-time weather conditions, images, and maps. Utilized FastAPI and Redux Toolkit.

VennPlayground | *JavaScript, React, SVG, HTML5, CSS3, Bootstrap*   2022
An interface for generating and semantically evaluating Venn Diagrams with a proof-checker.
- Designed an intuitive and dynamic interface employing React components and SVG technology.

MuPlayground | *JavaScript, React, HTML5, CSS3*   2018
A user-friendly interface implementing the logic for Hofstadter's proof system employing React components.
- Developed a gamified version of Hofstadter's MIU-system as a single-page React application.