

Gabriel Brookman

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Who am I?

- Early-career full stack engineer experienced with TypeScript as used in the React and Node.js ecosystems.
- Implemented crucial customer-facing functionality into the web app at Coral.
- Quick learner who can easily adapt to new frameworks and codebases.

Employment

Full Stack Engineer, Coral Money inc.

Nov 2021-Dec 2022

- Implemented **automatic document generation and serving using Dropbox Sign API** to allow customers to sign investment documents without leaving the app.
- Designed and implemented **address selector, phone number input, and date input components** to allow customers to smoothly enter their details when investing in properties.
- Built custom React components that served **Twitter, Mapbox, and Matterport** data to customers within our app.
- Facilitated **long-term sustainability of the code base** by making decisions about how to handle dates as they moved through our tech stack.
- Wrote scripts to **automate safe deployment of database schema changes**.

Skills

Languages and Libraries

- **TypeScript**: Very experienced with TypeScript including **React, Node.js, Express, and Zod** via using them at Coral. Some experience with Jest.
- **Python**: Very experienced with **PyTorch and Numpy** via PhD. Some experience with Flask, Jupyter, Matplotlib, and Keras.
- **PostgreSQL and SQL**: experienced at writing database queries and creating or modifying schemas.

Other Skills

- **Git**: Very familiar with Git on both a practical and theoretical level.
- **Machine Learning**: Very experienced with **neural networks, regression algorithms, and singular value decomposition**, via PhD.
- **zsh and bash**: Experienced with various command line tools. Some experience with writing shell scripts for automation. Vim poweruser.
- Working knowledge of: **Lua, Java, C**.

Education

University of Massachusetts Amherst

September 2020-April 2021

- Computer Science MS/PhD. student specializing in Machine Learning. 4.0 GPA. Exited without a degree. Coursework: **Machine Learning, Natural Language Processing**.

Carleton College

September 2016-June 2020

- Computer Science Major, Math Minor. In-major GPA: 4.0
- Selected Coursework: **Advanced Algorithms, Advanced Linear Algebra, Artificial Intelligence, Data Structures, Probability, Programming Languages, Software Design**.