

Mason Porter-Brown
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Work Experience

2022-Present **Quantcast** **San Francisco, CA, New York, NY**
Full Stack Software Engineer

- Developed and improved customer-facing targeting features on Quantcast's self serve platform using React, Typescript, Redux, GraphQL, and Java backend
- Currently working on introducing improved forecasting visualization tools in the self serve platform, ingesting data via API and displaying the information with custom built components

Education

2019-2021 **Bard College** **Annadale-On-Hudson, NY**
BA (Computer Science)

- 4.0/4.0 GPA in all Computer Science Courses (Discrete Math, Data Structures, Programming Nature, Design of Programming Languages, Algorithms, Games System, OOP)

2017-2019 **The City College of New York** **New York, NY**
BA (Sonic Arts Program)

- Studying audio technology led me to investigate building hearing aid software based on harmonic series

Projects

2021 **Using Postgres as a Cache for MongoDB**
Undergraduate Senior Thesis

- Explored caching mongoDB queries and statistics in Postgres
- Implemented a feature that automatically detects if a new mongoDB query can be satisfied by carrying out Joins, Subsets, or Unions of already cached data
- Avoids the need to make unnecessary queries to MongoDB servers and successfully increased efficiency of queries

2020 **Scheme Interpreter**
Built a Scheme interpreter using the Swift programming language

- Successfully interprets the main Scheme functions including Closure functionality
- Implemented the Visitor Pattern

Technical

- **Languages:** JavaScript, Typescript, Java, Python, Swift, Scheme, Lua
- **Development tools:** VSCode, IntelliJ, Github, TIC80
- **Other:** React, HTML, CSS, Redux, GraphQL, Gradle, Maven, Node.js, MongoDB, Postgres, ThreeJS, Express, Max/MSP