Mason Porter-Brown
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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, sparking interest in computer programming

Projects

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

2021   **Berzerk Remake**

Remake of Atari 2600 Version of "Berzerk" the game

- Studied source code to understand how the game functions
- Created a remake of Berzerk using the TIC80 platform and the Lua programming language

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

Technical

- **Languages:** JavaScript, Java, Python, Swift, Scheme, Lua
- **Development tools:** VSCode, Vim, Github, TIC80
- **Other:** Node.js, MongoDB, Postgres, HTML, CSS, React, Express, Max/MSP