

# Jared Beneroff

## Software Engineer

[jbeneroff.github.io/portfolio](https://jbeneroff.github.io/portfolio)

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### Summary

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Software engineer with an extensive and diverse background in full stack development, data analysis with python, and five years of preclinical neuroscience research looking to work in and advance a field utilizing new technologies.

### Skills

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- Languages & Frameworks: JavaScript, React, Ruby, Rails, Python, jQuery, Node.js, Express, AJAX, HTML5, CSS, APIs, Front-end, Back-end.
- Management & Deployment: Git, GitHub, Command Line, RSpec, Heroku.
- Databases: SQL, PostgreSQL, MongoDB.
- Methodologies: Object Oriented Programming, MVC Pattern, Test-Driven Development, Responsive Design, Authentication, User Stories, ERDs, Wireframing, Agile Development/Scrum, Troubleshooting/Debugging.
- Scientific research experiment planning, development, operation, and data analysis.
- Scientific research article and literature review writing.
- Analysis of MRI scans using FSL.
- Advanced computer literacy (PC and Mac, hardware and software) and proficiency with Microsoft Office.

### Experience

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#### **Software Engineering Immersive Student, General Assembly** **June 2021-Present**

- 12-week, 500+ hour training program focused in Git/GitHub, HTML, CSS, JavaScript, Node, MongoDB, SQL, Ruby, and Rails.
- **Projects:**
  - DeCryptor - Cryptocurrency forum built with Ruby on Rails and React
  - Code Doctor - Stack Overflow clone built with MongoDB, Express, React
  - NeuroLog - Neuroscience article database built with React and AirTable
  - FinView - Stock market screener built with JavaScript, HTML, CSS

#### **Research Technician, Columbia University, Barnard College, NYSPI** **Sept 2019-May 2021**

- Conducted preclinical research focusing on the mechanisms of learning with an emphasis on how time is learned and used to guide behavior.
- Developed and implemented a protocol for a novel way to implant fiber optics simultaneously with adeno-associated viruses in the brain of mice using moth silk to record the firing of neurons.
- Created an experimental method for measuring working memory in mice using a touchscreen.
- Used python and SQL for analysis of experiment data.

#### **Scientific Research Consultant, Modera Labs** **July 2018-Sept 2020**

- Conducted pharmacology research searches for a Cannabidiol (CBD) product company.
- Located, analyzed, and interpreted research for translation to business use and products.

**Internship, New York University Langone Health, Medhattan Urgent Care** **Jan 2019-Aug 2019**

- Shadowed Dr. Leslie Miller, Medical Director of NYU Urgent Care Services.
- Assisted with patient treatment and analysis of clinical and financial data for future research publication.

**Research Specialist, Medical University of South Carolina** **Aug 2015-June 2017**

- Performed PCR, genotyping, animal behavior and drug exposure studies, HEK cell culture techniques, ELISA and electrophysiology in order to understand the biological processes of alcohol addiction.
- Extensive mouse colony care including husbandry, weaning, tissue collection, and euthanasia.
- Laboratory administration and record keeping for Dr. John Woodward's Neuroscience Lab.
- Contributed to research publication on Alcohol and NMDA receptors.

**Research Assistant, Psychology Department, University of Delaware** **Sept 2014-May 2015**

- Scheduled and consented participants, ran computer-based pattern recognition experiments, and processed behavioral data for Dr. Timothy Vickery's Cognitive Neuroscience Lab.
- Received MRI Level I Safety Training and Human Subjects Research certifications.

**Education**

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**Bachelor of Science, Neuroscience** **May 2015**

University of Delaware, Newark, DE

Cumulative GPA 3.6

Dean's List

**Fall 2011-Spring 2015**

University of Delaware Scholar Award

**Fall 2011-Spring 2015**