

EDUCATION

Brown University

Bachelor of Science in Cognitive Neuroscience, Computational Track
Honors, Nominated to Sigma Xi (Scientific Research Honor Society)

Providence, RI
May 2018

Courses: Software Engineering, Functional Programming, Data Fluency, Computational Cognition

Cumulative GPA: 3.49/4.00

Harvard Graduate School of Design

Design Discovery Program in Architecture

Cambridge, MA
Summer 2017

Fieldston High School

Bronx, NY
June 2013

WORK EXPERIENCE

Serre Lab in Computational Vision

Research Assistant, Web Developer

Providence, RI
2016-Present

- Awarded honors and *Sigma Xi Honor Society* for thesis on modeling Grid Illusions
- Modeled the visual system in the context of optical illusions, increasing relative accuracy from 75 to 80% by implementing excitation and inhibition between receptive fields in Python
- Led a redesign effort of Brown's Cognitive, Linguistic, and Psychological Sciences [website](#).

Tradeweb Markets

Market Analyst Intern

Tokyo, Japan
Fall 2017

- Wrote Python scripts to scrape data on recent trades, increasing data collection speed 10x
- Presented weekly reports on trends in East Asian bond markets
- Updated head of East Asian Markets on cryptocurrency developments

Zone Digital

Data Analytics Intern

London, England
Summer 2016

- Created SQL database of 500+ UK competitors and a web app to interact with the data

SELECTED PROJECTS

Modeling of the Visual Stream in the Hermann Grid — Honors Thesis, Spring 2018

- Improved accuracy of computational models of the visual cortex by 5%
- Proposed a new biological explanation for the illusory strength of Grid Illusions

Technology: Python, MATLAB, SQL

Stuff Goin' Down — Software Engineering Final Project, Spring 2018

- Collaborated to create an interactive life map of the world's breaking news, organized by sentiment
- Created user and sentiment analyzer classes in Java, built user up/down voting functionality

Technology: Java, Javascript, HTML/CSS, D3.js, Google Maps API

Maps — Software Engineering Project, Spring 2018

- Web-app similar to Google Maps that takes locations from the user and displays the optimal route
- Uses a KDTree to find closest point to input and Dijkstra's to optimize the path

Technology: Java, Javascript, HTML/CSS, Spark

EXTRA-CURRICULAR

- Ultimate Frisbee A Team — finishing 5th in nation in 2018
- Selected as a Meiklejohn Peer Advisor to advise and support incoming first-years
- Architecture & Design Teacher at the Wheeler High School

Languages: Experience in Python, Java, Javascript, HTML/CSS, TensorFlow, SQL