

# Derek Shue

I am a software engineer in the San Francisco Bay Area with experience developing dynamic full-stack web applications and proficiency in Ruby, Rails, Javascript, React, Redux, Node, and GraphQL.



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## EDUCATION

### **App Academy**

*February 2020*

### **University of California, Berkeley**

*Cognitive Science B.A., May 2019, GPA: 3.71*

## WORK EXPERIENCE

### **Lawrence Berkeley National Laboratory, Berkeley, CA -- Research Assistant**

Summer 2018

- Investigated the limb-specific enhancer ZRS at *Sonic hedgehog (Shh)* gene in snakes through researching phenotypic robustness and ultraconserved enhancers
- Gathered DNA samples from mice through euthanization and clipping
- Prepared and restocked stock solutions and materials
- Updated and organized transgenic mice data via Google Sheets

### **Tufts Medical Center, Boston, MA — Research Assistant**

Summer 2016

- Conducted study to establish possible correlative links between JAX mouse genes and the presence of Alzheimer's Precursor Protein (APP)
- Mentored a high school student in standard laboratory procedures
- Analyzed laboratory data through qPCR readouts
- Managed mammalian cell culture growth over a period of four life cycles

### **Tufts Medical Center, Boston, MA — Volunteer Laboratory Assistant**

Summer 2015

- Evaluated the effects of *Drosophila melanogaster* genes on the production of EAAT1, which is correlated with ALS
- Performed PCR, gel electrophoresis, and slide imaging
- Collaborated with postdocs and professors to determine direction of multiple projects
- Identified four genes with strong correlative links with EAAT1

## RELEVANT COURSEWORK

- COMPSI 61A: The Structure and Interpretation of Computer Programs
- COG SCI 131: Computational Models of Cognition

## SKILLS

- Ruby
- Ruby on Rails
- Javascript
- React/Redux
- Python
- Node.js
- GraphQL
- HTML/CSS
- Docker
- MongoDB
- PostgreSQL
- Webpack
- R

## OTHER ACTIVITIES

### **UC Berkeley Wind Ensemble — Clarinetist**

2016-2017

- Principal third clarinetist in 2017
- Fifth chair clarinetist in 2016

### **Norwood Hospital, Norwood, MA — Volunteer**

Summer 2014

- Distributed food, blankets and other provisions to patients
- Shadowed doctors and nurses