

# Brandon Suen

Software Engineer | <https://bsuen.netlify.app/>

## EDUCATION

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- **UC Berkeley:** B.A. Computer Science & Data Science double major (expected grad. May 2023)
- **Cumulative GPA:** 3.82
- **Technical skills:** JavaScript/Node.js, React Native, Python, Java, C, HTML, CSS/SASS, Git, React.js, Redux, Express.js, Bootstrap, Machine learning, Deep reinforcement learning

## EXPERIENCES

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**Software Engineer Intern at Google, Inc., Upcoming Summer 2022**

**Research Apprentice at Boettiger Lab, UC Berkeley, Sept. 2020 - Present — Python, Gym**

- Researched data science approaches to ecological forecasting and decision making
- Modeled fisheries using deep reinforcement learning to evaluate optimal fishing strategies

**STEP Intern on Web Stories Team at Google, Inc., May 2021 - Aug. 2021 — JavaScript, CSS**

- Added Image Quiz and Poll components to Web Story library using HTML, CSS, and JavaScript
- Engineered components to be clean, engaging, performant, and accessible on many browsers
- Responsible for implementation, engineering design docs, testing, documentation, and demos
- Collaborated with other Google engineers and designers daily and presented ideas and projects

**Computer Science Summer Institute at Google, Inc., July 2020 — JavaScript**

- Completed a project-based JavaScript curriculum taught by Google engineers
- Delivered collaborative final project presentation with live demonstration to Google employees

**Full-Stack Developer Intern (Unpaid) at Reputationaire, June 2019 - Sept. 2019 — React.js**

- Added UI features to Reputationaire's web service using Agile methodology
- Fixed many bugs and cleaned up code on a large codebase

## PROJECTS

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**UC Berkeley CS 61A Hog Contest Winner, July 2020 — Python, XGBoost, Pandas**

- Placed top 3 in a ~700 student class in contest to design best algorithm for dice-rolling game
- Used tree recursive strategy with supervised machine learning classification using XGBoost

**Creator of [Geographist](#), on iOS App Store since Aug. 2019 — React Native, Redux, JavaScript**

- Allows users to explore random cities on a map using information retrieved from various APIs
- Periodically shows ads using Google AdMob and offers an in-app purchase to remove ads

**Creator of [Quiz Watch](#), on iOS App Store since Mar. 2019 — React Native, Redux, JavaScript**

- Over 1,000,000 trivia questions have been answered by thousands of users across the world
- Trivia app that reveals questions word by word to users until they buzz in and answer
- Implemented algorithm to evaluate the accuracy of answers by using the Wikipedia API
- Configured algorithm to parse inconsistent answer formats written for humans readers

**Other projects:** 2 other iOS apps and 20+ more programming projects (see [personal website](#))

## CERTIFICATIONS

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**[Deep Reinforcement Learning Nanodegree](#), 7/2/2020, Udacity — Python, DQN, DDPG, etc.**

- Intensive curriculum (4 months worth) covering value-based and policy-based deep RL
- Built 3 projects using DQN and DDPG algorithms to train high-performing agents

**[Responsive Web Design Certification](#), 6/1/2020, freeCodeCamp — HTML, CSS, JavaScript**

Completed 5 web page projects to practice web development skills; represents 300 hours coursework