

RITIK RAINA

🏠 San Diego, CA 📞 (818) 629-7022 💻 ritik.xyz 🌐 ritikraina ✉ rraina@ucsd.edu 🌐 rainarit

🎓 EDUCATION

University of California, San Diego

B.S. Cognitive Science: Specialization in Machine Learning and Neural Computation

September 2018 - June 2022

Major GPA: 3.4

📖 RELEVANT COURSEWORK

Advanced Data Structures
Data Science in Practice
Object Oriented Programming

Algorithms and Systems Analysis
Computer Organization and Systems Programming
Artificial Intelligence Algorithms

💻 SKILLS

Languages Java, Python, Swift, React.js, HTML, CSS, C++, LaTeX, Bash, Assembly
Software & Tools UNIX, Git, Vim, Jupyter, MongoDB, CocoaPods, Google Firebase, OpenCV, OpenGL, Tensorflow

</> EXPERIENCE & LEADERSHIP

CodePath | Tech Fellow

January 2020 - Present

Worked with: Xcode 11, Swift, CocoaPods

- Increased the largest pipeline of high-performing underrepresented engineers in tech via Codepath, a nonprofit that has raised \$1 million from Facebook.
- Taught Facebook-designed 12-week iOS course to campus teaching 45+ students the fundamentals of app development through the hands-on experience.
- As an instructor, I was required to maintain a high-level of understanding of the curriculum topics including but not limited to: Frameworks, iOS Libraries, Back-end, APIs, AutoLayout (constraints), and CocoaPods.

STAR Capital | Machine Learning Intern

July 2019 - September 2019

Worked with: Python, Tensorflow, OpenCV, Dlib C++, Firebase, SciPy, NumPy, Pandas, Keras

- Developed Python scripts which used Selenium, Request, and BeautifulSoup frameworks for evaluating web-scraping models. These models were then used to scrape credit rating documents off FinTech sites.
- Researched and developed CNN/Spatial models for training and evaluating facial detection & recognition systems based on employee facial data.
- Designed and implemented custom spatial algorithms and data structures for deriving facial landmarks.

VennPool | Software Developer

November 2018 - April 2019

Worked with: HTML/CSS/JavaScript, Bootstrap, Firebase, Expo, React

- Designed and developed the company website's interface using Bootstrap themes and CSS/Semantic UI.
- Communicated with mentors and investors as a part of the startup incubator, The Basement.
- Worked with Google Firebase APIs to authorize access to the application and control service operation access.

📁 PROJECTS

Invoice Logger

January 2020

Uses: MongoDB, Express, HTML/CSS/JavaScript, React

- Built a reactive web application using MERN stack for querying banking transactions uploaded to a MongoDB collection. Built to explore the various features of MongoDB Atlas.

Tweet4Me

December 2019

Uses: Swift, Alamofire, Twitter REST API, UIKit, AFNetworking

- Custom Twitter app for browsing and interacting with a personalized feed.
- Implements the Twitter RESTful API to supply feed with tweets and allow users to tweet, retweet, and favorite.

ParsyGram

December 2019

Uses: Swift, Parse, Alamofire, UIKit

- An Instagram-style social media application where users can create accounts to upload and share pictures.
- Utilizes a custom Parse backend to securely store users and passwords.

Awakened: Eye Predictor for User Vehicle Safety

October 2019

Uses: Python, SciPy Spatial, Dlib, iMutils

- A Python/Django application which could monitor the eyes of a driver. If the driver's eyes were closed for ≥ 2 seconds, an alert would buzz to wake the driver. After each vehicle trip, an online report would be made to measure the total time the driver was unconscious for. This was a group project built at the 2019 MLH SDHacks.