

Aryaman P Singh

Full-stack developer with a passion for data analysis.

San Diego, CA

aps010@ucsd.edu | [aryamanpsingh.github.io](https://github.com/aryamanpsingh) | 213-420-9792

EDUCATION

UC San Diego | La Jolla, CA

B.S Applied Math

RELEVANT COURSEWORK

- Data Structures & Object Oriented Design
- Math for Algorithms & Systems
- Combinatorics, Statistics, Data Analysis w/ R

SKILLS

- **Programming:** Python, Java, C++
- **Math:** R, Matlab, Pandas
- **Web:** JavaScript, HTML, CSS
- **Storage** – AWS, MySQL, PostgreSQL.
- **Frontend** – ReactJS, Redux, Material-UI, Bootstrap
- **Backend** – Django, Flask, Selenium

PROJECTS

Stat90 (143.110.225.43)

2020

Visualization tool for soccer statistics.

- Built a **React** progressive web-app which uses **Chart.js** to graphically compare player/team statistics.
- **Material-UI** for styling and **Redux** for state management.
- Data is scraped weekly using **Selenium**, loaded into a **PostgreSQL** database, and served through a **Django REST API** backend.

IronLog (143.110.146.187)

2020

Fitness tracker to create and modify routines.

- Created a **Django** backend which utilizes many-to-many model relationships allowing users multiple start-points to their log and reducing database redundancy.
- Progressive Web App implemented in **React** using **Redux** for state management and **Knox** for token authentication.

Reddit.Record

2019

Explore a term's sentiment and popularity on Reddit by subreddit.

- Built a **Flask**-based web-app which generates graphs using **PyPlot** and **Bokeh**.
- Implemented **PushShift API** to collect data from Reddit and used **NLTK** to analyze the sentiment of the vectorized data.

Position Predictor

2018

Predicts soccer position based on skill values.

- Developed a **Flask** web-app which predicts the users' soccer position based on entered attributes.
- Trained a Classifier model, applied **Principle Component Analysis** reducing a 51 feature dataset to 11 while maintaining 92% accuracy.

WORK EXPERIENCE

UCSD HDH

2019-2020

System Administration Assistant

- Responsible for the maintenance of operating systems, business applications, security tools, web-servers and emails.
- Primarily worked with FoodPro, a food inventory management system.

The Football Chronicle

2015-2017

Editor-in-Chief and Web Developer

- Managed a team of 20+ authors, with the goal of publishing multiple articles daily to build traction.
- Progressed from scratch to 200,000+ users through organic social media marketing campaigns.