Himanshu **Patel**

Computer Science Student

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Education

California State University, Fullerton *Fullerton, CA*

B.S. in Computer Science *Exp. August 2019*

- **Classes**: Data Structures and Algorithms, Software Development with Open Source Systems, File Structures and Database Systems, Compilers and Languages, Software Engineering, Operating Systems, Web Front-End Engineering, Algorithm Engineering, Computer Communications
- **Clubs**: Association for Computing Machinery

Skills

Languages	JavaScript, Python, C++, HTML, CSS
Frameworks/Libraries	React, Redux, Node.js, Express, Flask, Django, Bootstrap
Databases	MongoDB, PostgreSQL
Tools	Git, Mocha, Chai, Travis CI, Heroku, AWS (EC2, EB, RDS)
Operating Systems	Linux, macOS, Windows

Projects

eSports Scoreboard *Demo | Github*

React, Node.js, Express, Axios, Bootstrap

- Utilized Pandascore's REST API to develop a web application where eSports fans can view after match/live stats for multiple games in one place.
- Used Axios to fetch data on tournaments and matches from popular eSports games such as League of Legends and Overwatch.
- Implemented a Node.js/Express back-end to create an API with the data and then retrieved the information on the client-side using Axios.
- Displayed data on matches from multiple regions/leagues for various eSports games and created a responsive UI with React and Bootstrap.

Spotify Playlist Creator *Demo | Github*

React, Node.js, Express, X-ray, Bootstrap

- Developed a web application that lets users create Spotify playlists based on an artist, search criteria, user metrics (top tracks/artists), and the top 100 songs from Billboard.
- Utilized Spotify's Web API to create playlists and retrieve data on artists, playlists, and users.
- Aggregated the top tracks from artists/playlists matching the user's search criteria and added option to save a playlist with the tracks on Spotify.
- Authenticated users by implementing the authorization code flow.
- Used X-ray to scrape the top 100 songs from Billboard and store them in a JSON file. Set up a cron job to update the file weekly.

Instagram Clone *Demo | Github*

React, Redux, Node.js, Express, MongoDB, Passport.js, Mocha, Chai, Travis CI, Bootstrap

- Built a social media website where users can create an account, share pictures, like posts, leave comments, and follow users.
- Designed and implemented a RESTful API with Node.js/Express and connected it to a MongoDB database hosted on mLab.
- Wrote tests for the API using Mocha and Chai and set up continuous integration with Travis CI.
- Authenticated users using Passport.js, Bcrypt.js and JSON Web Tokens.

MyShowList *Demo | Github*

React, Redux, Django, PostgreSQL, AWS (EB, RDS), Ant Design

- Developed a web application where users can search for shows and keep track of ones they've watched/plan to watch.
- Implemented option to rate shows, write reactions/reviews, follow users, and sort user lists by rating, status, title, etc.
- Created a REST API using the Django REST Framework and connected it to a PostgreSQL instance hosted on AWS RDS.
- Deployed the Django app to AWS Elastic Beanstalk and React app to Heroku.

Facebook Messenger Bot *Github*

Python, Flask, Beautiful Soup, Selenium

- Developed a Facebook Messenger bot that allows students of Cal State Fullerton to check the status of classes.
- Implemented feature to notify students when a waitlisted/closed class is available via text or email using Twilio.
- Scraped the university's course catalog with Beautiful Soup 4 and Selenium.

Discord Bot *Demo | Github*

Python, AWS EC2

- Created a Discord Bot that interacts with various video game APIs (League of Legends, PUBG, Fortnite) to display player stats.
- Implemented commands (kick, ban, etc) to make moderating servers easier and a command to play YouTube videos in voice channels.
- Utilized Dark Sky's API to retrieve the daily weather forecast for a given location.