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

Spotify Playlist Creator *Demo | Github*

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

- Developed a web application that allows users to 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, add tracks to 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.

eSports Scoreboard *Demo | Github*

React, Node.js, Express, Axios, Bootstrap

- Designed and developed a web application that lets eSports fans view after match/live stats for multiple games in one place.
- Utilized Pandascore's REST API to fetch tournament and match data 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.

Instagram Clone *Demo | Github*

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

- Built a social media website similar to Instagram. Users can create an account, upload pictures, like pictures, 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 for keeping track of shows. Users can create a list with shows 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/queue YouTube videos in voice channels.
- Utilized Dark Sky's API to retrieve the daily weather forecast for a given location.