

Brandon Minjares

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EDUCATION

University of California - Santa Cruz

Grad Year: March 2023

Bachelor's of Computer Science

Relevant Coursework: Data Structures and Algorithms, Full-Stack Web Development, Database Management Systems, Algorithm Analysis, Programming Abstractions in Python, Applied Machine Learning

PROJECTS

Imaginary Investor | *Python, MongoDB, Django*

[Website](#) | [Github](#)

- **Real-time Market Data**
- **Leaderboards**
- **Social Features**

Filmbot | *Python, JavaScript, PostgreSQL, NodeJS, ReactJS, Express, Material UI*

[Website](#) | [Github](#)

- **Full stack web application** applying **User-Based Collaborative Filtering** to create film recommendations.
- Leveraged **MovieLens** dataset to help build the recommendation system and avoid cold start problem.
- Utilized **The Movie Database API** to enable users to access detailed information about films.
- Integrated **JustWatch API** to enable users to redirect to a film's available streaming websites.
- Designed a highly portable and scalable database management system using dockerized **PostgreSQL**.

BAM! (Senior Design Project) | *JavaScript, MongoDB, NodeJS, ReactJS, Express*

[Website](#) | [Github](#)

- **Mobile web application** allowing peer-to-peer file transport between user's by bumping phones together.
- Leveraged **WebTorrent API** magnet links to avoid file storage, increase security from potentially dangerous torrent links, and improve the user's privacy.
- Application uses device's accelerometer data to detect motion of phone's bumping which initiates file transfer.
- Geolocation API is used to find a matching pair of user's location coordinates to validate correct users
- Led team of 4 in development of project implementing **Agile methodology** principles learned in our course.

GPT3Movies | *JavaScript, NodeJS, ChatGPT3, ReactJS, Express, Chakra UI*

[Website](#) | [Github](#)

- Web application implementing **ChatGPT API** to generate challenging and fun movie trivia questions.
- Utilized **Socket.io** library to create interactive rooms for users to compete against each other in real time.
- Built a dynamic and visually engaging user interface using **Chakra UI** to enhance user experience.

Animal Classifier | *Python*

- Developed classifier using **Convolutional Neural Network** from 10,000 animal images in ImageNet database.
- Incorporated **VGG model using transfer learning** to improve model accuracy.
- Model classifies 10 different animals and achieved 92% accuracy in **Kaggle Competition**.

WORK EXPERIENCE

Webbege | *WordPress Developer* (Part-time)

July 2018 – Feb 2020

- Developed and maintained 4 web applications using WordPress, JavaScript, HTML, CSS.
- Collaborated with customers to achieve key marketing objectives.
- Incorporated digital marketing tools Google Analytics and HubSpot.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, NoSQL, HTML, CSS

Libraries/Frameworks: ReactJS, Express, Material UI, Chakra UI

Developer Tools: Git, Jest, Docker, Swagger