

# **Navya Batra**

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## **EDUCATION**

### **University of California, Riverside**

**September 2021 – Present**

#### *B.S. Computer Science and Engineering*

- Relevant Coursework: Data Structures and Algorithms, Software Construction, Linear Algebra with MatLab, Introduction to Python: MIT OpenCourseware, Discrete Structures, Computer Architecture and Organization

## **WORK EXPERIENCE**

### **The Hwood Group**

**June 2023 – Aug 2023**

#### *Full Stack Software Engineering Intern*

- Created SQL schema to store customer details and event attendance history to manage events and customer details for efficient organization
- Created service that streamlined event booking process for customers by implementing QR code management feature that leveraged Twilio API to distribute QR codes for reservation to customers, resulting in 20% increase in event attendees
- Optimized job assignment for all venues by 27% by implementing a job management portal for venue managers to assign jobs and tasks to employees allowing for venue specific criteria
- Stack: SQL, Twilio, JavaScript

### **Department of Electrical and Computer Engineering**

**March 2023 – May 2023**

#### *Research Associate*

- Created a service leveraging the NASA API to download 30,000+ images daily from NASA's public data on fire temperature captured by the GOES-17 satellite. This service optimized download time by 90%.
- Migrated data onto Google Cloud Platform (GCP) allowing for streamlined data management and analysis
- Stack: GCP, JavaScript, Python

## **PROJECTS**

### **Recipe Generator Application**

**June 2023 - July 2023**

- Created an application using GPT-3 API where users can enter any dish they want to prepare and the application provides them a recipe for that dish
- UI consists of a text field where the user can enter the recipe name and a submit button where the recipe instructions are triggered
- Response is formulated by making a call to the GPT-3 API and then writing the retrieved recipe to the screen
- Stores the user prompt and the GPT-3 response in a MongoDB database
- Stack: React.Js, NodeJS, GPT-3 API, MongoDB, Javascript

### **NASA Globe Observer App**

**February 2023 - May 2023**

- Refactored an iOS app for the Globe Observer program, which will be used by instructors in the NASA Globe program to upload and manage data.
- Implemented a data uploading portal that allows instructors to easily upload data to NASA's Globe database and access previously uploaded data from other instructors.
- Allows users easy access to lesson plans and PDF documents provided by NASA to enhance the educational experience
- Stack: Swift, SwiftUI, JavaScript

### **Brick Breaker**

**December 2022 - January 2023**

- Utilized data structures to develop game that allows players to control a paddle to bounce a ball and break randomly generated bricks on the screen
- Implemented a feature that generates a new row of bricks every two minutes, ensuring that the game can last indefinitely and increasing its replay value
- Designed the game to progressively increase in difficulty by making the ball move faster at repeating intervals of 1 minute and 30 seconds, creating a more engaging experience for players.
- Containerized the application using Docker, making it easy to deploy and scale in various environments.
- Stack: p5.js, NodeJS, JavaScript, Docker

## **SKILLS**

- **Proficient In:** C++, Python, JavaScript, NodeJS, HTML, SQL
- **Familiar With:** Big Data, Open-Source Projecting, Swift, SwiftUI, MongoDB, Docker, Git, Bash, GitHub, AWS, Google Cloud Platform, Data Structures and Algorithms, PowerPlatform, Excel, GPT-3 API, Twilio API

## **INTERESTS**

- Basketball, Rock Climbing, Fashion, Stock Market, AI, Music, Personal Finance, Product Management, Space Exploration, Current Political Affairs