

SATWIK MALLAJOSYULA

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Education

Arizona State University

August 2021 – May 2025

Bachelor of Science in Computer Science, GPA: 3.7/4.0

Tempe, Arizona

Relevant Coursework

- Data Structures
- Intro to Software Engg
- Machine Learning
- Compilers
- Distributed Software
- Database Management
- OOP
- Operating Systems

Experience

Arizona State University

March 2024 – Present

Undergraduate Research Assistant

Tempe, Arizona

- Incorporated Whisper v3 large model to analyze over 1000 ambulance to hospital emergency audio call recordings and transcripts.
- Implemented Natural Language Processing techniques to filter out background noise and extract relevant information from the calls.

Arizona State University

August 2023 – December 2023

Undergraduate Teaching Assistant

Tempe, Arizona

- Facilitated the course (Object-Oriented Programming) instructor in planning and organizing lectures, assignments, and exams for a class of 200 students.
- Conducted weekly office hours to provide 1:1 or group assistance to students, clarifying concepts, and debugging code.

Projects

Bitcoin Value Predictor | Python, PyTorch, Pandas, Scikit-learn, Numpy

March 2024

- Preprocessed the dataset consisting of 3000 values using pandas and scikit-learn, including standardization of input features and splitting into training and testing sets.
- Implemented an RNN model architecture using PyTorch and trained the model achieving an average loss of 0.02 per batch.
- Evaluated the trained model on test set and attained R2 score of 0.997 indicating strong predictive capability of the model.

Readers Retrieve | React.js, Tailwind CSS, Javascript, Django, Postgresql

November 2023

- Engineered an e-commerce platform, bringing a unique and tailored online bookstore experience.
- Executed Image storage of over 1000 books in the catalog leveraging Amazon Web Services S3 bucket.
- Launched a responsive and modern front-end using React.js and Tailwind CSS, displaying 200+ books in the home page, creating 6+ routes.
- Integrated Postgresql as the database, for more than 5 different tables, ensuring swift retrieval and storage of product information, user data, and transaction details.

Filmpire | React.js, Javascript, CSS, HTML

October 2023

- Developed a website using React.js and CSS that displays a list of all movies and ratings.
- Extracted data on 1000+ movies from the OMDb API, analyzing key metrics such as ratings, genres, and box office earnings.
- The website allows users to search for specific movies using a search bar, providing information about 1000+ movies to the users.
- Built fast, responsive, and visually appealing website leveraging React.js, Javascript, CSS, and Restful API.

Technical Skills

Languages: C++, C#, JavaScript, Python, Java, C, HTML, CSS, SQL

Developer Tools: Git, Jira, VS Code, Eclipse, Google Cloud Platform, IntelliJ, Postman, Amazon Web Services

Technologies/Frameworks: React, Redux, Spring Boot, Django, Express.js, Node.js, Linux, Jenkins, GitHub, Docker

Achievements

- Won 2nd Prize in the 19th Annual Programming Competition hosted by Wics.
- Supervised Machine Learning: Regression and Classification by Stanford University.