

Mihir Mangesh Pavuskar

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EDUCATION

Master of Science in Computer Science
University of Southern California

December 2024
4.0

Bachelor of Technology in Computer Science and Engineering
Vellore Institute of Technology, Vellore

August 2022
9.24

SKILLS

- Frontend Development: ReactJS, NextJS, Redux, TypeScript, JavaScript, HTML, CSS, Webpack, MaterialUI, ChakraUI
- Backend Development: NodeJS, Go, Docker, AWS, REST APIs, CI/CD, Git, MongoDB, SQL, Redis, DynamoDB, Firebase
- Machine Learning / Data Science: Tensorflow, PyTorch, NLP, Computer Vision, TFJS, Algorithms, SciKit Learn, Python, C++

EXPERIENCE

Software Developer Frontend

Sep 2022–Dec 2022

MURF AI, Bengaluru, India

- Implemented critical features in video/audio editing studio to enhance usability and make interface user-friendly.
- Analyzed Google Analytics logs to identify and resolve bugs and devise fail-safes reducing crash rates by 40%.
- Optimized studio for data intensive projects by applying UI virtualization and modifying data flow across ReactJS components and Redux making app 5 times faster.
- Collaborated with Customer Success team to upgrade Google Analytics to GA4 while maintaining data consistency.

Natural Language Processing Researcher

Feb 2022–Jul 2022

Deakin University, Geelong, Australia

- Developed an end-to-end Question Answering model for structured and unstructured financial data under Dr. Chetan Arora
- Researched best models such as TaPaS, ALBERT, HybridR, TagOp for each question type and finetuned models on FinQA, financial dataset and HybridQA, hybrid datasets consisting of both tables and paragraphs.
- Combined various models to create an ensemble model achieve state-of-the-art accuracies on benchmark financial datasets such as FinQA, TAT-QA and test financial documents.

Full Stack Software Developer Intern

Jan 2022–Apr 2022

Velocity Global Solutions, India

- Overhauled ECG monitoring dashboard by migrating from legacy code to NextJS boosting performance and ease-of-use.
- Visualized large amounts of patient data through multiple graphs through customized library built on top of ReactCanvas.
- Developed patient progress interface for doctors in React enabling multiple patients tracking simultaneously.

Student Research Intern

Dec 2019–May 2020

Samsung, Bangalore, India

- Designed an Intelligent Text Normalization model for Automatic Speech Recognition systems used in Samsung products by leveraging XgBoost and BERT based language models and achieved accuracy of 99.7%.
- Generated slangs dataset by scraping popular slang dictionaries and trained light-weight language models such as ALBERT to normalize slang language by improving model accuracy by 4.4%.

PROJECTS

Resume AI

Summer 2023

- Leveraged Vercel-AI API and text-streaming to generate resumes and cover letters given user profile and job description.
- Designed user-friendly resume editor and management dashboard with NextJS and ChakraUI via and deployed to Vercel.
- Attained scalability, security, and reliability through Firebase for data storage and authentication and git CI/CD pipelines.

Smart Checkout System

Fall 2021

- Deployed a smart checkout system using ReactJS and NodeJS in a docker environment hosted via AWS EC2 instances.
- Used MongoDB for data storage and LSTM sales prediction model to predict future sales by considering past sales data.

See Food

Fall 2020

- Built a “Shazam for Food” React app capable of identifying and classifying up to 500 dishes from uploaded pictures.
- Utilized TensorFlow ResNet model achieving 82.7% accuracy and converted to TensorflowJS model for deployment.

INVOLVEMENT

Co-Founder and Club Secretary, Comedy Club, VIT

Dec 2020 – Dec 2021

- Handled administrative tasks such as securing permission, reservation of spaces, submitting events and other paperwork.
- Managed human resources with 60 members through recruitment, work delegation, reviewing complaints, etc.
- Organized multiple events in restaurants and on-campus, both online and offline to great turnout.