

VARUN SAVAI

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Education

Georgia State University

Masters in Computer Science (CGPA: 3.87 / 4.00)

Aug 2023 - present

Atlanta, GA

Jawaharlal Nehru Technological University

Bachelor of Technology in Computer Science (CGPA: 8.55 / 10)

Aug 2016 - Oct 2020

Hyderabad, India

Technical Skills

Languages: JavaScript, Python, TypeScript, Java, C, C++, HTML, CSS, SASS, SCSS, SQL

Technologies: React, Django, Redux, Node.js, Express, Tailwind CSS, JUnit, Firebase, RESTful API, Google Cloud Platform

Databases: MySQL, MongoDB, PostgreSQL, GraphQL, Redis

DevOps: Kubernetes, Docker, Jenkins, CI/CD

Tools: Eclipse, Visual Studio Code, Jupyter, IntelliJ, Git, GitLab, GitHub, PowerShell, Postman, Jira

Experience

Alien Attorney/Orbex Labs

Software Engineer Intern

May 2024 - present

Atlanta, GA

- Converted 6 JavaScript pages to React and integrated with Django REST Framework backend, enabling a responsive multipage architecture and improving page load times by 45%.
- Developed an interactive image annotation system using HTML Canvas and custom JavaScript, achieving 96% IoU for bounding box precision across multiple image types and form layouts.
- Refactored the REST backend to support a multipage architecture for document classification, modifying API endpoints for efficient data retrieval and reducing query times by 35%.
- Implemented containerized deployment on Google Cloud Platform using Docker, optimizing CI/CD pipeline for seamless updates and scalability of the Machine Learning application.

LTIMindtree

Software Engineer

Oct 2020 - May 2023

Mumbai, India

- Led cross-functional collaboration of design and development teams to enhance the performance of e-commerce application using JavaScript and React.js for frontend improvements, resulting in a 30% reduction in load times.
- Engineered efficient Node.js/Express.js APIs for product retrieval and order processing and implemented RESTful architecture and GraphQL queries, collaborating with 4 engineers to achieve 25% increase in system efficiency.
- Simplified server response times by 25% through a robust caching mechanism employing Redis, improving application speed resulted in a more seamless user experience, evidenced by a 5% increase in customer satisfaction.
- Attained a 40% reduction in post-release bugs by introducing automated unit and integration testing with Jest and Cypress, enhancing software quality, boosting customer satisfaction by cutting down support tickets by 30%.

Projects

Crypto Web Application | ReactJS, Context API, Axios, Firebase, Web development

[Link](#)

- Leveraged CoinGecko API and Google Firebase to develop a feature-rich interface for a crypto tracking app, enabling real-time coin rankings, news updates, and personalized watchlists with secure user authentication.

Entertainment Platform | ReactJS, Context API, Axios, UI

[Link](#)

- Elevated functionality of front-end web application, empowering users to search and explore latest movies and TV shows seamlessly. Currently spearheading implementation of robust user authentication through Firebase, increasing application's security and personalised user experience.

Cardiac Arrhythmia Detection using Deep Learning | Python, Tensor Flow, Deep Learning

[Link](#)

- Developed and executed a deep learning model with Keras Sequential framework, utilizing MIT-BIH database and attained an accuracy of 98% and a precision of 93%.

Publications

- A Deep Learning Approach for Cardiac Arrhythmia Detection, Springer Link Journal, ICACECS-2020. [Link](#)