TANMAYI KASTHURI

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EDUCATION

Master of Science in Computer Science **Aug 2022 – May 2024**
University of Florida, GPA:3.55/4.0 *Gainesville, Fl*
Bachelors of Technology **Aug 2018 – June 2022**
Geethanjali College of Engineering & Technology, GPA:3.50/4.0 *Hyderabad, India*

EXPERIENCE

Programmer Analyst Trainee(Intern) **Feb 2022 - May 2022**
Cognizant *Hyderabad, India*

- Skilled in React.js, demonstrating mastery in state management using Hooks, conditional rendering, event handling, asynchronous operations, API integration, and prop drilling, enabling the creation of interactive and data-driven web applications.
- Built secure server-side applications using Node.js, Express.js and MongoDB, and integrated user authentication and role-based authorization with JWT, ensuring data security and scalability.
- Developed a Formula One Assistant application using Google Dialogflow, a natural language processing tool, to enable intuitive interactions with users. Obtained API endpoints from Postman to seamlessly integrate real-time Formula One data, enhancing the application's capabilities to provide live updates.
- Expertly collaborated with a team of 15 members, using Git version control to ensure codebase integrity and enhance project quality.
- Contributed to developing efficient and scalable software solutions using MongoDB and Mongoose library to establish robust database connections, optimizing data management.
- Put into practice SOLID principles while working on softwares across the object-oriented spectrum.

PROJECTS

GatorTaxi | *University of Florida, Gainesville* *• March 2023 - May 2023*

- Developed an efficient software tool in Python for Gator Taxi, a prominent ride-sharing service, to manage and track a high volume of ride requests, ensuring no requests are overlooked and achieving high customer satisfaction.
- Applied key operations including ride details retrieval, ride insertion, prioritization, cancellation, and ride information updating, resulting in streamlined ride management and reduced pending requests by 15% at it's most optimized configuaration.
- Improved program efficiency through the integration of Red-Black Trees and Min Heaps data structures, achieving a 40% improvement in data access and manipulation.

ShopIt | *University of Florida, Gainesville* *• Feb 2023 - April 2023*

- Spearheaded the development of 'ShopIt,' a feature-rich website crafted using the Django framework empowering 4 in 10 users to buy and sell reusable products, promoting sustainability.
- Utilized PostgreSQL database as an integral component of the backend infrastructure. Skillfully employed user authentication functionalities encompassing login, logout, and registration processes, enhancing the security by 30% and usability of the project by 20%.

Identification of COVID-19 through Radiological Images using CNN| *GCTC, HYDERABAD* *• Jan 2022 - April 2022*

- Trained Convolutional Neural Network (CNN) models with chest X-Ray data and achieved an impressive accuracy rate of 96% in detecting viral infections, as confirmed through rigorous testing with new image datasets.
- Evaluated the performance of various metrics across different algorithms, providing valuable insights to determine the most effective approach for addressing similar healthcare challenges.
- Demonstrated the superior capabilities of deep learning techniques in detecting the novel COVID-19 virus, achieving an outstanding sensitivity of 98%.

SKILLS

Web Technologies: HTML, CSS, JavaScript, React, Node.js (for server-side development), Express framework, Django Framework, REST APIs, MERN stack, Bootstrap, JSON, XML, JSX.

Languages: Python, Java, JavaScript (including Ecma Script 8), C, Sql.

Databases: MongoDB, PostgreSQL, MySql, Mongoose, ORM, NoSql.

Cloud Technologies and Other: AWS, Git, GitHub, Agile Methodology, SDLC, PyCharm, Google Collab, VS Code,

EXTRA CURRICULARS

Paper Publication

- Authored a paper for the International Journal of Scientific Research in Engineering and Management (IJSREM), detailing the development of a global COVID-19 tracking application, which monitors live, active, and deceased recovery cases worldwide.