MADHURAJ KUNTA

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EDUCATION

Stony Brook University Aug 2023 – Present
Master of Science, Computer Science, **CGPA: 3.89/4.0** Stony Brook, NY
Coursework: Computer Vision, Algorithms, Theory of Databases, Natural Language Processing.

Vasavi College of Engineering Aug 2018 – Jun 2022
Bachelor of Engineering, Computer Science, **CGPA: 9.04/10** Hyderabad, India
Coursework: Data Structures, OOPS, DBMS, Operating Systems(Linux/Unix), Network Security, Image Processing, Machine Learning, Artificial Intelligence, Distributed Systems.

TECHNICAL SKILLS

Languages	C, C++, C#, Java, Python, HTML&CSS, JavaScript, SQL, NoSQL, XML, PostgreSQL.
Web Dev & DB	Bootstrap, PHP, React.js, Node.js, Angular, Typescript, MySQL, MS SQL, Hadoop, Spark.
Tools	Git, GitHub, Jira, Jenkins, CI/CD, MS Office, Visual Studio, Azure, AWS, Docker.
Python Modules	NumPy, Pandas, Scikit, OpenCV, Matplotlib, PyTorch, Tensorflow, Flask.

WORK EXPERIENCE

Stony Brook University Jan 2024 – Present
Graduate Research Assistant *Stony Brook, NY*

- Developing a **Generative AI** report generation system within an interactive **visual data analysis** program, tracking user discoveries and synthesizing insights into comprehensive **LLM** reports, resulting in a **30%** reduction in report creation time.

NCR Corporation Jul 2022 – Jul 2023
Software Engineer I *Hyderabad, India*

- Developed an application(Kiosk) that helps cinema theatre operations by enabling efficient scheduling of performances across multiple auditoriums, resulting in a **40%** increase in customer satisfaction ratings.
- Collaborated with the team to introduce new features, streamlining food and beverage purchases and reducing the checkout process by **25%**. Additionally, optimized application performance by independently identifying and **resolving bottlenecks**, seamlessly **integrating UI** in the front end, and **developing APIs** for the back end to improve overall efficiency.
- Successfully eliminated the **cloud gateway** dependency by establishing direct connections between UI and server using **REST API** protocols. This optimization initiative enhanced system reliability and reduced latency by **20%**.
- Full Stack Skills: **React.js, C#(.NET), MS SQL.**

NCR Corporation Jan 2022 – Jun 2022
Software Engineer Intern *Hyderabad, India*

- Received a comprehensive 1-month training program encompassing **C#, React.js, Github, and Agile Foundations**, followed by an online course focused on designing scalable and secure code for web development.
- Created **SOAP** and **RESTful APIs** to improve data exchange between applications, enhancing overall system performance.
- Enhanced efficiency of cash reports generation by **35%** through optimization of **MS SQL queries and XML data processing**.
- Full Stack Skills: **C++, C#(.NET), MS SQL, XML.**

PROJECTS

TEDS-A Data Analysis and Processing | Hadoop, Apache Spark, Java, Python

- Implemented **Hadoop and Spark** programs to analyze and process the Treatment Episode Data Set (TEDS-A) over **20 years** of admission data, utilizing **MapReduce and Spark frameworks** to extract insights on substance use disorder treatment admissions, demonstrating proficiency in big data processing and analysis techniques.

Your Guide | React.jS, Material UI, Postman, Node.js

- Constructed a robust web application empowering users to effortlessly apply for job opportunities, actively participate in competitive contests, and knowledge enhancement through a vast library of **500** e-books and **1000** tutorials.

Fantasy League | HTML, CSS, JavaScript, PHP, MySQL

- Designed a web application that delivers **100%** efficient real-time cricket updates, player statistics, team rankings, and tutorials, ensuring fast and reliable data retrieval from Rapid cricket API. Deployed on **AWS EC2** with Auto-scaling for Scalability.

Speed Detection using ML | Python, Numpy, OpenCV, Matplotlib, Jupyter notebook

- Successfully implemented a **Machine learning** model that detected and quantified the speed of moving objects with an accuracy rate of **87.33%**, leading to improved object tracking capabilities in real-time applications.

AWARDS & HONOURS

- NCR **best employee award** for the fourth quarter of 2022.
- Achieved the **1st** position in the college hackathon for **Your Guide** project.