SRI HARSHA MATTAPARTHY

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EDUCATION

University of Massachusetts Lowell, Lowell GPA: 3.5/4.0
Master of Science, Computer Science Sep 2023 – Present
Gandhi Institute of Technology and Management University, Bangalore GPA: 3.5/4.0
Bachelor of Technology, Computer Science Jun 2017 – Jun 2021

SKILLS

Languages: Java, Python, C, C++, VC++, MFC, JavaScript, C#, WPF
Web Technologies: HTML, CSS, NodeJS, Spring Boot, Angular, REST API, JSON, JUnit, jQuery, YAML
Database and cloud: MySQL, Oracle10g, PostgreSQL, MongoDB, AWS (DynamoDB, S3, EC2, I AM, Cloud API), Docker, Kubernetes
AI and ML: NumPy, Pandas, Scikit-learn, Keras, TensorFlow
OS and Tools: Linux, Windows, Postman, Maven, VS 2019, VS 2008, Android Studio, Jira, Tortoise SVN, GitLab, Cloud Computing

EXPERIENCE

Graduate Intern Operations Analyst - Student Affairs, University of Massachusetts Lowell [Data Analysis] Jan 2025 – Present

- Analysed data trends to streamline workflows, reducing report completion time by 20% and improving inventory tracking accuracy by 25% through Pantry Soft.
- Directed a team of 8 program assistants, optimizing resource allocation through Pantry Soft, which increased operational efficiency by 30%.
- Increased program visibility and community engagement by 35% through targeted social media campaigns and cross-department collaboration with internal teams and external Organizations.

Software Engineer, **Entain** [MFC/VC++, Win 32 API, MySQL, Sitecore, GitLab, Tortoise SVN, Jira, VS2008, VS2019] Oct 2021 – Aug 2023

- Developed a desktop poker betting/gambling platform with client-server architecture using VC++/MFC, delivering seamless gameplay to 60+ clients.
- Integrated a third-party 'My Game' application into the game table using Win32 API, enabling statistical tracking for over 100,000 players, and enhancing analytics capabilities by 40%.
- Executed 50+ advanced MySQL scripts to perform CRUD operations, optimizing release management and reducing deployment errors by 30%.
- Improved a CI/CD pipeline using GitLab, achieving 95% deployment uptime and reducing manual effort by 50%.
- Resolved 35+ critical incidents and 20+ escalations with a 100% resolution rate, leveraging JIRA for efficient issue tracking and root cause analysis.

ACADEMIC PROJECTS

Mushroom Dataset Analysis and Conversion [NumPy, Pandas] Sep 2024 – Dec 2024

- Optimized data preprocessing using one-hot encoding and feature scaling, increasing validation accuracy to 97.15%.
- Built a high-accuracy machine learning model that classified datasets with 96.90% precision, ensuring reliable predictions and data-driven decision-making.
- Reduced model training time by 20% by streamlining data pipelines and optimizing memory management with NumPy and pandas, enhancing computational efficiency.
- Maintained an error margin below 3.25% across training, validation, and testing phases, ensuring model consistency.

Remote Patient Health Monitoring System [Pandas, TensorFlow, ML, Java, Android Studio, Mobile Development] Sep 2023 – Dec 2023

- Analysed 6,500+ datasets using Python and Pandas, systematically categorizing data into structured columns, increasing analysis efficiency by 40%.
- Implemented the LSTM machine learning algorithm to train and test datasets, achieving an 85% model accuracy for predictive analytics.
- Designed a mobile application in Java to predict heart failure risk, achieving 99.9% uptime and enhancing patient care through early intervention by improving prediction accuracy.
- Integrated a TFlite model into the mobile application, streamlining real-time data validation and boosting prediction accuracy by 15% for heart failure risk assessments.

On-Road Vehicle Breakdown Assistance Finder [HTML, CSS, JavaScript, PHP, JSON, SQL, REST API, jQuery, Junit] Jan 2021 – Apr 2021

- Developed a 3-tier layered responsive web application using HTML, CSS, JavaScript, and PHP integrating Google Maps APIs to display nearby fuel stations, hospitals, and mechanics, enhancing user experience by 40%.
- Created a Monolithic architecture that supported seamless updates and maintenance, ensuring 99.9% system uptime and enhancing operational efficiency for the development team while minimizing downtime disruptions.
- Executed SQL queries in MySQL Workbench to populate and validate user data, increasing data integrity and accuracy by 30%.