Parimal Kashireddy

225-348-6140 | kasiparimal@gmail.com | linkedin.com/in/parimal-kashireddy/ | github.com/pkashi1

Education

Louisiana State University — Baton Rouge, LA
Masters in Computer Science — *January 2025 – December 2026*

- GPA: 3.9 / 4.00
- Relevant Coursework: Algorithms and Data Structures, AI, Big Data, Databases, Machine Learning, Object-Oriented Programming, Operating Systems, Web Development

Technical Skills

Languages: C#, Java, JavaScript, SQL, Python, CSS, HTML, C, C++, XML, JSON
Frameworks: React, Bootstrap, React Native, Node.js, Alpine.js
Configuration Management: Git, GitHub, VSCode, Vim, Eclipse, AWS, VPC, Firebase, MySQL, Jupyter Notebook
Other: Agile Methodologies, Networking, Cloud Computing (Azure, AWS), REST APIs, Google Map API
Certifications: AWS Cloud Practitioner (2023 - Active), AZ-900 (2024 - Active), DP-203 (2025 - Active)

Experience

Graduate Assistant - Data Analyst — January 2025 - May 2025
College of Engineering, Louisiana State University — *Baton Rouge, LA*

- Conducted molecular dynamics simulations using NAMD and VMD, focusing on protein-ligand interactions and molecular stability analysis.
- Automated simulation pipelines and data analysis workflows, improving processing efficiency by 30% and reducing manual workload.
- Applied Graph Neural Networks (GNNs) and Transformers to model and predict molecular properties, improving the understanding of complex molecular structures and interactions.

Azure Infrastructure Engineer — June 2023 – June 2024
DXC Technology — *New Orleans, LA*

- Integrated Omnichannel Chatbot between Applications, Data, and Security teams, leveraging OpenAI API, Docker, and Azure cloud services. Responsible for a 30% reduction in response time.
- Optimized workflows by using cloud infrastructure to drive efficient project development. Leveraged generative AI capabilities to streamline processes, resulting in a 40% reduction in project timeline.
- Engaged in Agile methodologies with Jira and Miro for effective progress tracking and task management in daily standups, sprint presentations, and check-ins.

FullStack-Developer — May 2022 - May 2023
BrBytes, LSU Physics Department — *Baton Rouge, LA*

- Built and maintained user-friendly web applications using JavaScript, HTML, and CSS, implementing best practices for responsive design.
- Designed and optimized relational database schemas using SQL Server, ensuring high performance and scalability for backend systems.
- Enhanced and maintained backend systems by optimizing SQL queries and stored procedures for better performance.
- Debugged and enhanced application functionality using Visual Studio and source control tools like Git.
- Troubleshoot errors in previous code through testing methods and identified solutions.

Projects

MLP Implementation | *Python, Numpy* — January 2025 - February 2025

- Developed, trained, and evaluated Multilayer Perceptron (MLP) models from scratch using Python and Numpy. Implemented various activation and loss functions, enabling customizable network architectures.
- Trained models on datasets like MNIST and Vehicle MPG, achieving optimized results for both regression and classification tasks.

Tutor-Vision App | *MongoDb, ExpressJS, React Native, NodeJS* — September 2022 - November 2022

- Developed a full-stack MERN prototype app utilizing React Native, interpersonal skills, and information technology with a MongoDB and Express.js back-end.

- Implemented an interactive chat system allowing students to communicate with their tutors.
- Used project management skills to deliver the project on time with fewer bugs through Test Automation processes
- Collaborated with a cross-functional team of six using Agile and Scrum methodologies to find creative solutions to various segments of the app