

GAYATHRI GALIVEETI

Software Engineer

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PROFESSIONAL SUMMARY

Innovative and results-driven Software Engineer with a master's degree in computer science from the University of North Texas and extensive hands-on experience in software development and engineering. Expertise in developing scalable and robust applications using Java, JavaScript, and Python, with a deep understanding of full-stack technologies including Node.js and React. Demonstrated ability to lead and execute complex projects utilizing modern development tools and practices, such as Git, AWS, and Agile methodologies. Proficient in integrating RESTful APIs and optimizing databases using SQL and MongoDB, ensuring enhanced data flow and system efficiency. Committed to leveraging technical skills and a methodical approach to contribute to innovative software solutions and excel in a dynamic development environment.

EDUCATION

MASTER'S IN COMPUTER SCIENCE

University of North Texas

Denton, Texas

Related Coursework: Software Engineering, Software Testing, Graph Theory, Computer Security, Fundamentals of Database Management System, Secure E-Commerce, Computer Forensics, Secure Software Development.

BACHELOR'S IN COMPUTER SCIENCE

GITAM University

Bengaluru, India

Related Coursework: Java, C, OOPS with C++, Data structures, Computer Networks, Data Communications, Web Technologies, Machine Learning, Cloud Computing, Big Data, Project Management, Internet of things, Web Application Security

TECHNICAL SKILLS

Languages & Frameworks: HTML | CSS (FLEX, GRID) | JavaScript | Tailwind CSS | Bootstrap | jQuery | Next.js. |Java | Python | React | C++ | Figma|Nodejs

Development Tools: Visual Studio | Git | Anaconda | Jupiter Notebook | IntelliJ | AWS Console | REST API's | Postman |Thunder Client | Agile Methodology's | Scrum Methodology's | Chrome Dev Tools | DOM |

Data Science & AI/ML: TensorFlow | Scikit-learn | OpenCV | K-means Clustering | OCR.

Data Management: SQL | MongoDB | SQL Workbench | Oracle Database.

Certifications: Java – Coursera, Udemy / Machine Learning – Coursera / Cryptography – Coursera | The Complete Full-Stack development - Udemy

Concepts: Machine Learning | Data Structures | Algorithms | Web Services.

PROFESSIONAL EXPERIENCE

Pragyan-Ai – Intern

Sep 2021 – Nov 2021

- Developed and tested a machine learning-based fall detection system using TensorFlow, OpenCV, and Scikit-learn, aimed at timely medical intervention for fall victims.
- Utilized images and videos as inputs to accurately identify human falls, enhancing the safety and quality of life for the elderly and individuals with disabilities.
- Demonstrated strong multitasking abilities and creative problem-solving skills in a dynamic startup environment.
- This contributed to a project with significant potential for social impact, aligning with Pragyan-ai's mission to improve health and wellness through innovative technology solutions.
- Actively engaged in learning and applying advanced machine learning techniques for real-world applications, complementing academic studies in computer science.

Environment: Anaconda Jupiter Notebook, TensorFlow, OpenCV, visual studio.

Java Full Stack development - Intern

May 2022 – Nov 2022

- Gained hands-on experience in designing and developing full-stack web applications using HTML, CSS, JavaScript, jQuery, and Java, with a strong focus on creating responsive, user-friendly, and visually appealing interfaces.
- Leveraged Node.js for backend development to build scalable and efficient server-side solutions, integrating RESTful APIs to enable seamless data exchange and enhance application functionality.
- Conducted debugging, testing, and optimization to improve application performance, reliability, and scalability.

Environment: visual studio, MongoDB, Postman, git.

ACADEMIC PROJECTS

Educational App for Software Testing:

Developed web application using .NET, HTML, CSS. It is an online e learning platform. It has 3 tier architecture. And tested it manually and automatically, cleared the failed cases and completed it successfully. Worked in Agile Methodology.

GG GPT:

Done GG GPT, a clone of ChatGPT, leveraging React and the OpenAI API. This web application emulates the functionality of the original ChatGPT, providing AI-driven responses to user queries without the need for account creation. Designed to offer seamless user experience, users can directly interact with the AI to obtain answers across a broad range of topics.

Research Paper:

Conducted an in-depth study on GPU caching innovations, achieving up to 75% improvement in processing efficiency by implementing decoupled L1 caches and optimizing remote-core bandwidth. The research proposed crucial architecture enhancements for scalability and resource management.

Websites & Apps:

Creating a variety of web tools. These projects emphasized user-centric design and interactive elements, reinforcing front-end development expertise.

Quiz app | Note app | Music player | Dice Game | Calculator | Stopwatch | Simon Game.

ID Card Extraction Using Machine Learning:

Developed a high-accuracy OCR system for real-time identification and data extraction from ID documents. This solution improved the usability of image-stored data by converting it into searchable formats, supporting efficient information processing and accessibility.

Customer Segmentation Using Machine Learning:

Implemented K-means clustering to effectively segment customers based on demographics and behavioral data. This strategy refined marketing efforts, optimized resource allocation, and enhanced ROI by tailoring promotions to meet specific customer group needs.