

PAVAN RAJU PEDDALA

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EDUCATION

University of North Texas, Denton

Master's of Science in Computer Science

May 2025

Cumulative GPA: 4.00

Relevant Coursework: Operating systems, cyber security, Data mining, Design and analysis of algorithms, Software engineering and project management, Computer architecture and organization, Introduction to Computer Security, Programming Languages, Big data and data analytics.

Mahatma Gandhi Institute of Technology

Bachelor's of Technology

June 2023

TECHNICAL SKILLS

Languages: C, C++, Java, JavaScript, Python, X-86 Assembly

Software tools and skills: Visual Studio, Git, GitHub, VS Code, Microsoft Office, Microsoft Excel, Google Workspace, Eclipse, Linux, Jupyter Notebook, Agile Methodologies, JSON, JVM, JDBS, HTML5, CSS3, Unit testing, Integration testing, npm, Postman, ActiveMQ, NodeJS, MongoDB, ExpressJS, ReactJS, Spring Boot, PostgreSQL, MySQL, Bootstrap, PowerShell, RESTAPI'S

Operating Systems: Windows, Mac OS, Linux

Certifications: Problem solving, Programming for everybody (Coursera), Amazon Web Services, Microsoft Azure

PROFESSIONAL EXPERIENCE

Nextzen Technologies, Full Stack Developer | Hyderabad, India

February 2022 - July 2023

- Incorporated Model-View-Controller pattern to implement microservices for user authentication RESTful APIs. With the help of Spring Boot, accelerated the development of API's by 35% upon joining the team.
- Integrated PostgreSQL for data storage and retrieval, implementing database migrations and transactions, ensuing in a 20% enhancement in data retrieval speed and efficiency.
- Collaborated with cross-functional teams to ensure smooth integration and deployment, resulting in a 22% reduction in time for deployment and a 15% increase in overall project efficiency.
- Leveraged AWS Services such as EC2, S3, RDS, and Lambda for deploying, scaling, and managing cloud-based applications, leading to a 40% reduction in infrastructure costs and a 30% improvement in application scalability and performance.
- Implemented Test Driven Environment using JUnit, resulting in a 25% improvement in code quality and a 15% reduction in post-release defects.

PROJECT EXPERIENCE

Fullstack Job Portal | Master's, USA

January 2024 - May 2024

- Developed a job portal using the MERN stack (MongoDB, Express.js, React.js, Node.js), improving user engagement by 40% through a responsive and intuitive interface.
- Implemented secure authentication with JWT and created RESTful APIs for managing user data and job postings, increasing security and performance by 25%.
- Deployed on AWS and Heroku with Docker containerization, achieving 99.9% uptime and streamlining deployment, while enhancing database efficiency with MongoDB and Mongoose, reducing query times by 30%.

Electricity Billing System | Bachelor's, India

January 2023 - August 2023

- Created a Java-based Electricity Billing System using Java Swing for the GUI, providing a user-friendly interface for managing customer data and calculating bills. Increased billing efficiency by 25% through automated calculations and data management.
- Integrated JDBC to establish a connection between the Java application and MySQL database, ensuring secure and efficient data storage and retrieval. Shortened data retrieval time by 30% compared to previous methods.
- Incorporated features such as user login, strengthening system security by 20% through the implementation of secure login protocols.

Voice-Based Email Assistance | Bachelor's, India

February 2022 - May 2022

- Engineered a Python-driven email accessibility system with speech recognition capabilities; enhanced email interaction for physically challenged users, resulting in a 35% increase in daily email engagement and usage.
- Integrated text-to-speech and speech-to-text functionalities to enhance user interaction, improving accessibility and user experience by 40%.
- Ensured secure handling of email data through OAuth 2.0 authentication, increasing data security by 30%.