Vardhan Adabala

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COMPUTER & TECHNICAL SKILLS

Programming Languages: Skilled in Python, Java, C++, Angular, JavaScript, AWS, Azure, GIT, D3.js, Node.js, React, Mathematica, HTML, CSS, PHP, XML, CMS; Web front-end development experience
Software: Photoshop & Illustrator, Snowflake, Figma, SOAP UI, DBVisualizer, Jira, IBM ODM, Jenkins, Hyperledger Fabric, MS Office
Networking: Knowledgeable with computer networking concepts and functionality; database management
Support: Able to troubleshoot software, hardware, and technical issues
Operating Systems: Operational knowledge of Windows and Linux Environments; Cloud Storage Platforms

EDUCATION

University of Cincinnati, Cincinnati, Ohio   **December 2023**
Master of Science: Information Technology | GPA: 4
Jawaharlal Nehru Technological University, Hyderabad, India   **November 2020**
Bachelor of Technology: Information Technology

PROFESSIONAL AND TECHNICAL WORK EXPERIENCE

Software Engineer | Freddie Mac, McLean, VA   **January 2024 – Present**
- Collaborated with front-end and back-end developers, UX/UI designers, and product managers to design and implement scalable web applications using Angular and React, achieving a 30% reduction in load times and enhancing the user experience.
- Utilized AWS (EC2, S3, Lambda) and Azure (App Services, Functions) for robust cloud deployment and management, ensuring 99.9% uptime, while implementing microservices with Docker and Kubernetes to streamline services and improve scalability.
- Implemented microservices architecture with Docker and Kubernetes to streamline and enhance the efficiency of web services.
- Employed CI/CD pipelines using Jenkins for automated testing and deployment.
- Integrated monitoring and logging tools such as Prometheus and Grafana to track application performance.

Full Stack Developer | University of Cincinnati, Cincinnati, OH   **October 2022 – December 2023**
- Designed and developed responsive web applications using Angular, React, and Node.js, improving user engagement by 20%.
- Integrated RESTful APIs and GraphQL to facilitate seamless data exchange between the frontend and backend systems.
- Conducted regular testing and debugging of applications using Jest and Mocha to ensure high quality and performance standards.
- Deployed applications using Docker and managed container orchestration with Kubernetes.
- Utilized Git for version control and collaboration on code repositories.

Software Engineer | Tata Consultancy Services, India   **March 2021 – July 2022**
- Assisted in back-end development for Liberty Mutual on a migration project to integrate IBM ODM, significantly enhancing decision automation and overall system efficiency.
- Collaborated with the team to resolve user issues using the Jira ticket system, improving response time & customer satisfaction.
- Created optimized rules, Junits, and decision tables in IBM ODM, tested and deployed using the Agile model.
- Developed and maintained microservices using Spring Boot and Hibernate.
- Gained first-hand knowledge of software and hardware troubleshooting, enhancing system reliability.

Software Developer | Arisglobal, India   **September 2019 – January 2021**
- Developed and optimized software modules for pharmacovigilance systems using Java and SQL, resulting in a 15% increase in data processing speed and efficiency, and designed complex database schemas with PostgreSQL to enhance data retrieval.
- Participated in the design and implementation of database schemas using PostgreSQL, improving data retrieval efficiency.
- Assisted in the deployment and maintenance of software applications, ensuring smooth operation and minimal downtime.
- Implemented data visualization features using D3.js to enhance data interpretation.
- Employed Agile methodologies for project management and delivery.

CERTIFICATIONS

Microsoft Certified: Azure Data Engineer Associate - DP203 | *Credential ID:* F0E73613DF7304D8 | *Expires:* Jul 2025

TECHNICAL PROJECTS

- Developed Python App with Deep CNN for Face Emotion Recognition, cutting errors by 20%.
- Led the creation of an AI-powered Face Attendance System, saving 3 hours/day for 300 employees
- Implemented Intelligent Clustering of Geolocation Data in Python, improving data processing efficiency by 30%
- Spearheaded an AI Colorization project achieving a 25% increase in color accuracy for black-and-white photos
- Engineered a Rock, Paper, and Scissors detection application using Google's Teachable machine, with an accuracy of 95%
- Utilized Machine Learning for Classification of Toxic Comments, reducing false positives by 15%
- Architected Blockchain File Storage, ensuring 99.99% uptime for secure data storage.
- Designed & implemented an Online Voting System on Blockchain Technology, scalable to accommodate up to 2 million users, ensuring secure and transparent voting processes
- Devised several websites for startup companies maneuvering HTML, CSS, Bootstrap, and CMS

HONORS & AWARDS

Runner Up in *"Chess National Open School team Tournament 2014"*, Finalist in *"NASA SPACE APPS CHALLENGE 2018"*

EXTRACURRICULAR ACTIVITIES & VOLUNTEERISM

Chess Club – Conducted several tournaments within the school	2012 - 2014
Played for JNTUH University "South Zone Inter University Chess Tournament	2016 - 2018
Conducted chess tournaments for students and lecturers across 9 colleges in JB Groups	2016 - 2020
Rang Club – started a club in college to enlighten the lives of school children in rural areas	2018 - Present
Volunteered in community elections by taking photographs and issuing ID cards for voters	2017 & 2019