Manikanta Ganji

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EDUCATION

Master of Science in Computer Science, Kent State University — Aug. 2023 – Dec. 2024
- **Relevant coursework:** Design and Analysis of Algorithms, Computer Vision, Foundations of Artificial Intelligence (AI), Machine Learning, Web Development

Bachelor of Technology, Gitam University — Aug. 2016 – Aug. 2020
- Graduated with a strong foundation in computer science with distinction. Developed fundamental skills in programming, databases, and algorithms

EXPERIENCE

Application Developer — Dec 2023 – Dec 2024
Kent State University — *Kent, OH*
- Built modular front-end applications using HTML, CSS, and JavaScript on Outsystems platform; improved user engagement by 20% through clean, testable UI components
- Launched "Food for Thought," a research data collection platform with responsive UI and secure admin tools, enabling real-time analytics and exporting capabilities that supported over 100+ user sessions
- Collaborated with researchers and stakeholders to define functional requirements, delivering scalable features that reduced user drop-off by 15% and improved backend response time by 30%

Software Developer — Oct 2020 – Dec 2022
Virtusa Consulting Services (Bank of New York Mellon) — *Hyderabad, India*
- Designed and delivered Angular-based front-end modules with RESTful APIs via Spring Boot; improved reporting speed by 25% while aligning with SCRUM sprints
- Designed APIs that connected to AWS S3 for secure, scalable file handling boosted financial report downloads by 40% thanks to faster data delivery
- Created ETL pipelines to pull financial data from APIs, transform it, and load it into Oracle databases keeping things accurate and ready for analysis every day
- Led front-end testing initiatives using unit and integration testing frameworks (JUnit) reduced post-deployment bugs by 35% and contributed to peer code reviews
- Worked closely with 4 cross-functional teams and led bi-weekly demos for stakeholders and BNY Mellon clients helped keep feedback loops tight and features moving fast
- Earned the "Innovation Excellence Award" for delivering high-complexity features ahead of schedule and with good code quality

Web Developer Intern — May 2019 – July 2019
Nukkad Shops — *Hyderabad, India*
- Built responsive UI components for a Warehouse Management System using React.js and JavaScript helped improve inventory tracking by 30%
- Added Redux for state management, which reduced data inconsistencies and made components easier to reuse and maintain

TECHNICAL SKILLS

Languages & Core Competencies: Java, Python, JavaScript, TypeScript, Object-Oriented Programming (OOP), Data Structures & Algorithms, System Design

Frontend & Backend Development:: HTML, CSS, React, Angular, SpringBoot, Node.js, Flask, JUnit, Material-UI, TailWindCSS

Tools & Databases: MySQL, SQL, MongoDB, NoSQL, Oracle, AWS (S3), Docker (basic), Git, GitHub, GitLab CI/CD, Postman, Swagger, JIRA, ETL (Pentaho), Splunk, Agile, Scrum, JUnit, Mockito

PROJECTS

SecureHealth Cloud: A Confidential Database-as-a-Service Solution | *Python, Flask, MySQL* | GitHub
- Developed an end-to-end encrypted healthcare database platform using Flask and MySQL, achieving HIPAA-compliant data protection with Fernet encryption and reducing unauthorized access risks by 95%
- Implemented a multi-tiered authentication system with role-based access control, enabling secure, granular data access for 150+ simulated healthcare professionals
- Built a digital signature verification system to ensure complete data integrity validation and real-time tamper detection for sensitive medical records