MANI CHANDANA KANDUKURI

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SUMMARY

Results-Driven Software Development Engineer skilled in designing and building scalable, high-performance applications using Java, Python, and JavaScript. Strong foundation in object-oriented programming, data structures, algorithms, and distributed systems. Proficient in developing end-to-end solutions with backend frameworks like Node.js and Spring Boot, and frontend technologies including React and Next.js. Experienced in building RESTful and GraphQL APIs, integrating relational and NoSQL databases, and deploying cloud-native applications on AWS, Azure, and GCP. Adept at solving complex, ambiguous problems and delivering reliable software in agile, fast-paced environments.

WORK EXPERIENCE

BACKEND RESEARCH ASSISTANT   Jul 2025 - Present
Illinois Institute of Technology, Chicago, IL
- Building a secure backend for an automated grading system using Python, Redis, and Docker. Streamlined execution of 100+ student submissions per assignment through integration with Autolab.
- Engineered containerized job processing logic to run and evaluate student code in isolated environments, reducing manual grading effort by up to 90% and supporting scalable multi-course deployment.

PROGRAMMER ANALYST   Oct 2022 - Jul 2023
Cognizant Technology Solutions, Hyderabad, India
- Engineered responsive web applications using React and Node.js, achieving full cross-browser compatibility. Utilized Redux for state management, and styled components for maintainable styling, resulting in a 30% reduction in UI-related bugs.
- Integrated PostgreSQL with optimized queries and implemented RESTful APIs, reducing response time by 65% and enabling the platform to support 3x more concurrent users.
- Streamlined CI/CD using Jenkins and GitLab, cutting deployment time by 80% and boosting release frequency by twice. Worked with Agile Scrum teams, contributing to a 50% drop in post-deployment issues and 4x faster product iterations.

PROGRAMMER ANALYST INTERN   Mar 2022 - Oct 2022
Cognizant Technology Solutions, Hyderabad, India
- Constructed responsive UIs in React with efficient component design and integration and assisted in enhancing RESTful APIs, with Express and MongoDB, improving data retrieval speed by 25%.
- Collaborated with 4+ senior developers to learn and implement containerization using Docker, troubleshooting backend issues and streamlining API workflows, leading to a 20% improvement in sprint delivery speed across 3 project cycles.

PROJECTS

Elegance Clinic [*Next.js, React, Tailwind CSS, MongoDB, TypeScript, Twilio*] - *Visit Website*   **April 2025 - May 2025**
- Created a full-stack clinic management platform with appointment booking, interactive service pages, and an admin dashboard, efficiently handling 100+ test appointments/month and improving scheduling efficiency by 40%.
- Integrated Twilio SMS notifications and a secure OTP-based rescheduling system to enhance reliability, while designing responsive, reusable UI components with Tailwind CSS for scalability.

Personal Interactive Portfolio [*Vue, Vite*] - *Visit Website*   Dec 2024 – Jan 2025
- Developed a responsive portfolio webpage using Vue.js, with smooth client-side routing and navigation across key sections. Leveraged with a focus on UI/UX and used development tools to ensure optimized performance across devices, delivering a fast-loading, highly interactive experience tailored for both desktop and mobile users.

Bank Transaction Management Application *[JavaFX, MVC, XHTML, SQL*] -* *GitHub*   **Nov 2024 - Dec 2024**
- Designed a secure, role-based JavaFX application using MVC architecture for managing financial transactions in a banking environment. Implemented a responsive GUI that reduced user navigation time by 50%, offering seamless experience across devices for administrators, staff, and end users.

SKILLS

Programming Languages: Java, Ruby, Python, SQL, C#, C++, JavaScript
Frontend Dev: HTML, CSS, React, Vue.js, Angular, Bootstrap, TypeScript, Tailwind CSS, UI / UX, JSON
Backend Dev: Node.js, Express, Spring Boot, Next.js, Microservices, REST API, GraphQL API, JWT
Database & Tools: MySQL, PostgreSQL, MySQL, MongoDB, Eclipse, Visual Studio, NetBeans, Android Studio, Postman
Cloud & DevOps: Docker, Kubernetes, Azure, Azure DevOps, Git, GitHub, Jenkins, GitHub Actions, Linux
AI & Emerging Tech: LLMs, Retrieval-Augmented Generation (RAG) Pipelines, Cursor, Generative AI, Copilot
Proficient In: OOP, CI/CD, MVC, MVVM, Agile Scrum, DBMS, Computer Networks, Selenium, Playwright
Certifications: PCAP: Programming Essentials in Python, Amazon Junior Software Developer Professional Certificate

EDUCATION

Master of Information Technology & Management (Software Development)   May 2025
Illinois Institute of Technology (CGPA:4.0/4.0)
Bachelor of Technology   June 2022
Jawaharlal Nehru Technological University