SANDEEP MANGADU ARAVIND

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SUMMARY

Data oriented Software Engineer holding a master's in information technology with hands-on experience building end-to-end, scalable web applications across startups and enterprise environments. Proven expertise in FastAPI, React, Angular, .NET, SQL/MySQL and Neo4j, with experience integrating AI/LLMs and data pipelines into production systems. Strong at translating complex requirements into reliable, user-centric software solutions.

EDUCATION

Illinois Institute of Technology, Chicago, IL   DEC 2025
Masters, Information Technology and Management (Minor : Software Development)   *GPA: 4.0/4.0*

Sastra Deemed University, Thanjavur, India   JUL 2020
Bachelor of Technology, Electronics and Communication Engineering

WORK EXPERIENCE

Software Engineering Intern
Kingship AI Inc., San Jose, CA   JUN 2025 - AUG 2025

- Designed and implemented a resume anonymization platform powered by LLMs and FastAPI, ensuring unbiased candidate screening through secure data parsing and redaction workflows.
- Developed RESTful APIs to process, structure and anonymize sensitive information, combining regex and AI-driven NLP for accuracy.
- Built interactive dashboards enabling real-time file review and anonymized resume downloads.
- Integrated section-wise anonymization using locally hosted LLMs, ensuring data security.
- Delivered an end-to-end AI-enabled product, spanning frontend UI, backend services, database design and deployment logic.

Software Development Engineer - II
Schneider Electric, Chennai, India   OCT 2022 - JUL 2024

- Engineered enterprise-scale full-stack applications using Angular, .NET and Neo4j for real-time desalination plant monitoring.
- Built high-performance APIs and data services enabling live insights and decision-support systems.
- Integrated graph databases (Neo4j) into production systems, improving data exploration and visualization efficiency by 80%.
- Designed interactive, role-based dashboards to translate complex system data into actionable insights for operators.
- Conducted R&D on a Computer Vision project using Python and OpenCV to detect safety equipment in factory camera feeds, achieving 92% accuracy and reducing manual inspections by 60%.
- Mentored engineers on full-stack architecture, graph data modeling and API-driven systems, strengthening platform scalability.

Data Science Intern
Technosoft Corporation, Bangalore, India   MAY 2019 - JUL 2019

- Leveraged Pandas, NumPy and Matplotlib for data preprocessing and numerical computations on a large dataset, performing data cleansing and analysis steps foundational to machine learning workflows.
- Built a Power BI dashboard to present insights to stakeholders, improved client retention by 20%.
- Utilized Anaconda Navigator (Spyder, Jupyter Notebook), MS SQL, Power BI.

Data Analyst Intern

PayPal, Chennai, India   MAY 2018 - JUN 2018

- Gained hands on experience in data analysis using Python, SQL and Power BI to extract insights and build interactive dashboards.
- Worked on a project to detect anomalies in payment transactions, using statistical techniques and visual analysis to flag suspicious patterns and support fraud prevention efforts.
- Collaborated with data engineers to validate anomalies and ensure the reliability of data pipelines.

SKILLS

- **PROGRAMMING LANGUAGES:** Python | Java | JavaScript | C# | Swift
- **AI & LLMs:** OpenAI | Ollama | Prompt Engineering | NLP | Data Anonymization
- **FRAMEWORKS**: Fast API | React | Angular | ASP.NET | WPF
- **DATA ANALYSIS:** Pandas | NumPy | Matplotlib | Power BI | Neo4j Bloom | Machine Learning
- **DATABASES:** Neo4j | SQL | PostgreSQL | MySQL
- **CLOUD COMPUTING | CODING SECURITY | TESTING & MAINTENANCE**

PROJECTS

Recipe Management System (JavaFX, Android and AngularJS)   MAY 2025

- Built a cross-platform recipe app in AngularJS, JavaFX and Android with full CRUD functionality.
- Integrated Firebase for user authentication and real-time recipe syncing across devices.
- Enabled image uploads and responsive UI with Angular Material and native Android layouts.
- Applied MVC/MVVM patterns for clean architecture and maintainable code.

Hospital Management System   JAN 2025 – MAY 2025

- Developed a research-grade, role-based healthcare platform for real-time appointment and medical record tracking
- Integrated JavaMail for communication and custom JSF validators to ensure data integrity
- Supported dynamic UI interactions with AJAX, inspired by real-world healthcare data workflows

ACHIEVEMENTS

Neo4j Certified Professional   APR 2023
- Scored 84% on certification exam, demonstrating proficiency in graph database design, Cypher query language, and Neo4j's application in application development

Schneider Electric Global Student Experience   JUN 2024 – SEP 2024
- Gained insights through Digital Track
- Developed a project demo using image processing with OpenCV Python, for object detection in safety equipment in a smart factory