

# SANDEEP MANGADU ARAVIND

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## SUMMARY

Innovative software engineer pursuing a master's degree focusing on software development, experienced in building high-quality, scalable solutions. Proficient in C# .NET, Java, Python, FastAPI, React, Angular, JavaScript, Neo4j and UML based software design. Skilled in integrating AI/ML and LLM-powered models into real-world applications, including data anonymization and intelligent parsing systems. Adept at collaborating with cross-functional teams to deliver robust, user-centric software with a strong focus on performance and maintainability.

## 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

- Developed a resume anonymization app using FastAPI, React and LLM integration to support unbiased candidate screening
- Built RESTful APIs to parse, redact (via regex + LLM) and securely format sensitive resume data
- Implemented dynamic front-end components for uploading, reviewing and downloading anonymized resumes in real-time
- Enabled secure, section-wise redaction of education and experience fields using locally hosted language models

**Deputy Manager – Software Engineering**  
Schneider Electric, Chennai, India OCT 2022 - JUL 2024

- Optimized data exploration efficiency by 80% by integrating a Graph Database on Neo4j into a desalination power plant's web application leading to enhanced data visualization
- Developed a scalable API system with Angular, .NET and Neo4j to streamline data retrieval and interaction for desalination plant's operations
- Designed 70% of web application's front-end, ensuring user-friendly interfaces and seamless communication with back-end queries
- Employed Swagger to document APIs, accelerating integration and development processes
- Trained and mentored four team members on Neo4j and Angular, delivering comprehensive knowledge transfer sessions to enhance team expertise and project efficiency
- Built a Python based OpenCV/Haar-Cascade pipeline to detect safety equipment in smart factory feed with 92% accuracy, cutting manual inspections by 60%.

**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

- 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

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- **PROGRAMMING LANGUAGES:** Java | JavaScript | Python | C# | C++ | Swift
- **AI & LLMs:** OpenAI | Ollama | Prompt Engineering | 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**

## PROJECTS

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### 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 role-based hospital app using JSF, EJB and JPA on Payara Server.
- Implemented appointment scheduling, patient doctor assignment, medical record tracking and email confirmations using JSF forms, EJB services and Java Mail integration.
- Added custom validators and inline editing with AJAX for admin and doctor dashboards.
- Secured app with session management and role-based access using JAAS.
- Enabled inline editing, data filtering and dynamic dashboards for admins and doctors using AJAX-enhanced JSF components and Bootstrap-styled pages.

## ACHIEVEMENTS

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### 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