AKSHAY KEERTHI AS

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EDUCATIONS

Northeastern University | *Boston, MA*   **Expected Dec 2026**
Master of Science, Computer Science
Relevant Coursework: Programming Design Paradigm, Algorithms, Database Management, Building Scalable Systems, AI/ML
SSN College of Engineering | *Chennai, TN*   **Sept 2020 - Mar 2024**
Bachelor of Technology, Information Technology
Relevant Coursework: Advanced Data Structures, Cloud Computing, Principles of Software Engineering, Web Programming

TECHNICAL SKILLS

Programming / Frameworks   : Python, Java, Golang, C#, C/C++, TypeScript, JavaScript, HTML, CSS, SQL, .NET
                                                   Node.js, Express.js, Angular, React, Tailwind CSS, Streamlit, Flutter, LangChain, pytest
Databases & DevOps Tools   : MySQL, PostgreSQL, MongoDB, Kafka, AWS, Terraform, Firebase, Docker, Kubernetes
Data, Automation & Tools   : Playwright, Power BI, Power Automate, SharePoint Lists, Apache Kalfka, Azure App
                                                   Insights, Grafana, Git, GitHub Actions, Jenkins, Jira, Linux, Slack, Teams, PowerShell

WORK EXPERIENCE

FedEx | Intern   *Boston, MA*   **Jun 2025 – Dec 2025**
- Built a **Python** data pipeline to fetch manifest file's data from **FedEx APIs** across **400+** Stations, reducing runtime by **35%.**
- Engineered a data pipeline to extract **CSV/Excel** data across **RouteSmart**, **SSAMI**, and **RaaS systems** and implement **Openpyxl** Excel repair for **100+ stations daily** across the **United States** and **Canada**, reducing manual effort by **90%.**
- Automated a **Python** pipeline with **Playwright** to scrape handling units from **50+** shipment IDs, improving runtime by **75%**.
- Developing a **Power App** scheduling tool with **SharePoint Lists**, **Power BI**, and **Power Automate**, enabling **10+** regional managers to coordinate meetings for **150+** CSS Specialists to **300+** Network 2.0 station rollouts based on availability.

Lyzr AI | Member of Technical Staff   *Jersey City, NJ*   **Mar 2024 – Aug 2024**
- Deployed **25+** Amabots for YouTube A-list celebrities, enhancing digital presence and increasing fan engagement by **35%.**
- Launched **50+** Gen-AI app using OpenAI's **GPT-4 Turbo, Weaviate,** and **Streamlit,** contributing to **2x** in **enterprise sales.**
- Engineered LLM-driven chat agents for **15+ venture capital firms** and **enterprise clients**, using **prompt engineering**, **RAG** Pipelines, **BeautifulSoup**-based metadata scraping, and **FastAPI** integrations to improve response accuracy by **30%**.
- Authored **50+** technical blog posts and YouTube Videos on **Gen-AI Agents** and Lyzr Tools, boosting brand visibility by **20%**.

PROJECTS

ResQNet | *Spring Boot, React, Tailwind CSS, Docker, Apache Kafka, PostgreSQL, Azure App Insights, Jira*   **Sept 2025**
- Built a map-based disaster management platform with **Spring Boot (JWT, Spring Security, BCrypt)** backend and a frontend using **React** and **Tailwind CSS**, containerized using **docker**, reducing disaster reporting latency by **40%**.
- Architected an **Apache Kafka** event-driven pipeline, improving real-time alerts and coordination efficiency across **50+ users**.
- Designed **PostgreSQL** schema with **5+ entities**, integrated **JPA/Hibernate ORM**, and integrated **Azure App Insights** for geolocation analytics, improving user decision-making speed by **30%.**
- Utilized **Jira** for **agile project management**, enhancing **team productivity** by **35%** through sprints, epics, and backlogs.

StageCraft | *C#, ASP.NET Core MVC, Entity Framework Core, Razor Pages, X.PagedList*   **May 2025**
- Developed a theatre Content Management System using **C# ASP.NET Core MVC**, **Entity Framework Core (MySQL)**, and **Razor Pages**, utilizing **Microsoft.AspNetCore.Identity** and **X.PagedList**, reducing manual scheduling by **75%**.
- Built the backend with **5+ controllers**, an **AppDbContext** managing **4+ entities**, and implemented **10+ role-based features**.

Food Donation Tracking and Management System | *Python, Flask, MySQL, HTML, CSS*   **Sept 2024**
- Created a **Flask-based python application**, enabling **3 role-based** workflows and improving process efficiency by **35%.**
- Designed a scalable **MySQL** database schema following **CRUD principles** for role-based data handling, integrated multiple triggers for notifications, expiration alerts, and for user activity logs, reducing manual intervention by **20%.**
- Built a scalable backend using **Node.js**, **Express.js**, and **MongoDB**, optimized queries to reduce data retrieval time by **40%**.

Image Processing App | *Java, Java Swing, MVC, SOLID Principles, Design Patterns, JUnit, Mockito*   **Nov 2024**
- Architected a Java based **MVC** system using **Command and Strategy patterns** to integrate Haar Wavelet compression, Floyd-Steinberg dithering, and split-view rendering with real-time histogram updates across **15+** complex image operations.
- Reduced development time by **20%** and achieved **95%** code coverage using **SOLID** refactoring and **JUnit/Mockito** tests.