

# Sampath Kumar Kolichalam

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## EDUCATION

### Kent State University, Kent, Ohio (GPA:3.8/4)

Master of Science in Computer Science

August 2023 - December 2024

### Lingaya's Vidyapeeth, Delhi, India (CGPA:9.2/10)

Bachelor of Technology in Computer Science & Engineering

August 2019 – June 2023

## WORK EXPERIENCE

### FULL STACK DEVELOPER INTERN,D3E STUDIO,USA

August 2024-December 2024

- Helped in developing REST APIs for Jobs, Profile building website like jobs posting, jobs fetching.
- Created interactive front-end components with React.js for the company website.
- Worked on SQL Queries, API Integration, API Testing with frontend components.

### FULL STACK DEVELOPER,NITYA SOFTWARE SOLUTIONS,INDIA June2022 – June2023

- Designed & implemented scalable backend APIs with Java Spring Boot, increasing efficiency.
- Developed responsive front-end components using React.js, to reduce webpage load time.
- Deployed and maintained company application in Dockerized environments.

### PYTHON DEVELOPER INTERN,AI WALKERS,INDIA

August 2021-January 2022

- Automated data tasks using Python scripts, reducing manual workload by 40%.
- Optimized database queries with SQL, Pandas & Integrated APIs with front-end systems.

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, JavaScript, R, C++, SQL, Type Script.

**Data Bases:** MySQL, MS SQL, MongoDB, SQLite, DBMS, Spark SQL.

**Frontend Development:** HTML5, CSS3, Responsive Design, React JS, Bootstrap, Tailwind CSS.

**Backend Development:** Spring Boot, Flask, Node JS, Django, RESTful API's, Microservices.

**DevOps and Cloud:** AWS, Docker, Kubernetes.

**Version Control Tools and Operating Systems:** Git, GitHub, Linux, System Administration.

**Testing and Debugging:** JUnit, Chrome DevTools, Postman/Thunder Client(API Testing).

## ACADEMIC PROJECTS

### Pneumonia Disease Detection Using Vision Transformers:

- Developed a Vision Transformer (ViT) model to predict pneumonia disease using chest X-rays with an accuracy of 90.65% based on the ROC curve.
- Optimized model performance through advanced image preprocessing and fine-tuning techniques.

### Smart Resume Analyzer using NLP:

- Developed an interactive resume analysis web application using Streamlit, enabling users to extract key features and receive feedback through NLP-based scoring.
- Designed a user-friendly interface for seamless resume uploads and automated analysis.

### Database Application using SQLite Bottle Framework:

- Developed a music library database application which can perform CRUD operations.
- Designed RESTful endpoints for efficient data storing using the Bottle framework and SQLite.

### Amazon Clone –Full-Stack Web Application:

- Developed e-commerce web application with React.js for frontend, Redux for State Management.
- Developed RESTful APIs and backend services using Spring Boot & Microservices architecture.
- Utilized MongoDB and MySQL for efficient data storage and management.
- Deployed the application on AWS with CI/CD pipelines for scalability and performance.