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PROFESSIONAL EXPERIENCE

AICAN
Software Engineering Intern

Remote

August 2023 - April 2024

- Developed a customizable ERP SaaS platform using **microservices** to optimize production flows for MSMEs in the manufacturing sector, improving operational efficiency by **35%**, enabling quicker decision-making and execution
- Leveraged Next.js, React, JavaScript, ES6, TypeScript, Node.js, Redux and MongoDB database to develop critical features for manufacturing job creation and process planning adopted by over 25+ clients
- Rewrote the data telemetry module for shop floor sensors to replace the existing HTTP-based polling with MQTT over
 WebSocket, which improved latency and reliability for real-time monitoring and reduced failure response times by 45%

Knowledge Systems Lab, Stony Brook University Al Research Team Member

New York, USA

September 2023 - December 2023

- Led an Al-driven ESG analysis project using LLMs (GPT-4 and Llama 2), HuggingFace Transformers, and Retrieval-Augmented Generation (RAG) workflows via LangChain. Processed data for 300+ companies across 386 subtopics using Python, reducing analysis time by 75% compared to traditional methods while ensuring real-time data accuracy through retrieval mechanisms
- Engineered and optimized LLM prompts using LangChain's **PromptTemplate** and **Few-Shot learning** techniques. Integrated RAG pipelines with a vector database using **ChromaDB** to enhance the relevance of Al-generated ESG insights, improving output accuracy by **45%** and providing actionable recommendations
- Developed a robust validation pipeline using Weights & Biases for experiment tracking. Enhanced observability of RAG
 workflows with detailed accuracy metrics, increasing the actionability of AI-generated ESG commentary by 55%

Arthur J. Gallagher & Co. (Gallagher Re) Software Development Engineer

Remote

- July 2021 July 2022
- Worked as a Java full stack engineer on iFM Online, a web application for financial modeling, leveraging Core Java, J2EE, JSPs, Maven and Spring, along with CI/CD tools, contributing to the end-to-end Software Development Life Cycle
- Enhanced scenario analysis reliability by fixing data parsing on the backend & sterilized data fields to avoid XSS injections, resulting in a 65% reduction in data-related errors and a 100% elimination of identified security vulnerabilities
- Streamlined online navigation by fixing redirection issues, marking a 30% decrease in navigation-related support tickets and improvised shorthand notation parsing on the front-end to incorporate user comments, augmenting user experience

TECHNICAL SKILLS

Programming Languages: Java, Python 3, JavaScript, C++, SQL, Bash

Web Development Frameworks: HTML5, CSS, Servlets, JSP, Struts 2.0, MVC, Spring, Express.js, React, Node.js, Django Databases: MySQL, Microsoft SQL Server, NoSQL - MongoDB, AWS RDS

Version Control and Deployment: GitHub, GitLab, Docker, Amazon Web Services AWS, Google Cloud Platform **Concepts:** Object oriented Programming, MVC, Agile Methodologies, REST APIs, Algorithms, Cloud Computing

PROJECTS

A Review on In-Memory Caching Systems: Scalability, Efficiency and Optimizations Stony Brook University. Mentor: Dongyoon Lee

May 2023

• Exploring Segcache and related in-memory caching systems, focusing on scalability, efficiency, and optimizations in key-value stores like Memcached and Redis

TelePhysio: Telemedicine Platform for Remote Physical Therapy

October 2022

Stony Brook University

[Java, Spring Framework, Docker, Kubernetes, Minikube, MySQL, WebRTC]

• Developed a **Java** based telemedicine application for remote physical therapy, containerized with **Docker** & orchestrated using local **Kubernetes** clusters via **Minikube**, with **Spring**, **WebRTC**, and **OOP** for real-time sessions and data management

EduStack: A Smart e-Learning Platform

March 2021

University of Mumbai

[Python 3, Django, Django REST framework, JavaScript, Node.js, React, MySQL]

• Engineered a Python 3 full-stack web application, facilitating community-based education exchange via REST APIs

EDUCATION

Stony Brook University

Stony Brook, NY

Masters of Science in Computer Science, CGPA: 3.87/4

August 2022 - May 2025

Coursework: Computer Networking, Computer Vision, Operating Systems, Data Mining, Analysis of Algorithms

University of Mumbai Bachelor of Engineering in Information Technology, CGPA: 8.99/10

Mumbai, India

August 2017 - May 2021