

RAASHIL AADHYANTH

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EXPERIENCE

Metropolitan Transportation Authority (MTA)

September 2024 - Present

College Aide Software Intern

New York City

- **Developed Interactive Dashboards Using React:** Designed and built user-friendly, front-end dashboards using React to provide real-time, actionable insights. These dashboards were tailored to the specific needs of the General Superintendent, allowing him to access only the most relevant data at any given moment. I integrated **Deepseek LLM**, enabling users to ask natural language questions about the data directly within the dashboard. This innovation made data exploration more intuitive and efficient, empowering leadership to make faster, more informed decisions.
- **Enhanced Enterprise Asset Management (EAM) Software Utilization:** Supported supervisors in optimizing the use of EAM software by streamlining processes and improving operational efficiency. My efforts led to a 50% reduction in task completion time, enabling the team to focus on higher-priority tasks. I took pride in identifying pain points and implementing solutions that enhanced workflow automation and effectiveness & Leveraged analytics to create dashboards that streamline operations and enhance decision-making.

Capgemini

Software Engineer

October 2022 - August 2023

- Engineered comprehensive crop management web application with React.js, streamlining sales process for farmers & consumers by implementing Redux for state management & Axios for robust API communication.
- Optimized React components and templates, reducing cloud storage usage and supporting the organization's carbon neutrality goals.
- Collaborated with cross-functional teams to gather requirements, conduct user testing, and implement feedback, resulting in a 25% increase in customer satisfaction scores. Integrated REST APIs for seamless data retrieval, enabling real-time updates on crop availability and pricing, which enhanced the platform's responsiveness and reliability. Utilized AWS services to deploy and maintain the application, ensuring high availability and scalability that supported a 40% increase in user traffic without performance degradation.
- Fostered a culture of quality and collaboration by conducting code reviews, implementing best practices in software development, and mentoring junior developers on Java and MongoDB, which improved code quality and team efficiency. Participated in Agile ceremonies to enhance team collaboration and improve delivery timelines by 15%, while analyzing user data and performance metrics to provide actionable insights that guided feature enhancements and optimizations.

Java EE Full Stack Intern

April 2022 - October 2022

- Built Spring Boot microservices for MongoDB data retrieval/storage, exposing RESTful APIs for front-end integration, enhancing end-user performance. Containerized with Docker, deployed on NGINX, cutting deployment time by 40% and benefiting development teams.
- Implemented automated testing strategies for the microservices, using JUnit and Mockito, which improved code reliability and reduced bugs in production by 30%, ensuring a smoother user experience and faster deployment cycles.

ACADEMIC / PERSONAL PROJECTS

Cogniscruit

January 2025-Present

- Currently developing an AI-driven interview question generation tool using **Large Language Models (LLMs)** such as **OpenAI** and **LangChain**. The system extracts and processes candidate data from **resumes**, **LinkedIn profiles**, and **GitHub repositories**, along with job descriptions, to generate tailored interview questions. The backend is built with **Node.js** and **Python**, integrated with **MongoDB** for data storage, and utilizes **Confluent Cloud (Kafka)** and **Flink SQL** for real-time data streaming and processing.
- The frontend, developed with **Next.js** and **React**, provides an interactive UI for recruiters to customize and manage questions. The project focuses on optimizing AI workflows, ensuring seamless data flow between Kafka topics and AI agents, and continuously improving question relevance through feedback-driven model refinement.

Face Verification and Recognition

May 2024-August 2024

- Developed an end-to-end facial verification and recognition system using deep learning techniques, achieving 99% accuracy in face detection, 95% precision in face alignment, and 92% accuracy in feature vectorization.
- Implemented and optimized various Machine Learning models including Convolutional Neural Networks (**CNN**), Support Vector Machines (**SVM**), and **K-Means** Clustering, demonstrating proficiency in advanced **Computer Vision** algorithms.
- Integrated the ML model into a real-time web application, showcasing practical application of AI in software engineering and full-stack dev.

Biometric Identification Scheme in Cloud Computing - Improved fingerprint algorithm accuracy by 4% using AES & SHA-1, securing data storage on Ethereum blockchain.

TECHNICAL SKILLS & CERTIFICATIONS

Programming Languages: Java, Python, SQL, HTML, CSS, Spring boot | **LLMs :** Llama, Deepseek, Groq

Cloud Services: AWS (EC2, S3, Lambda, ECS), Docker, Elasticsearch | **Database Management:** MongoDB, Firebase, Neo4j, Zilliz

Technologies & Tools: Microservices | **Frameworks:** ReactJS | **Version Control:** Git, GitHub, GitLab

Project Management: Agile, Jira, Slack | **Certifications:** AWS Certified Cloud Practitioner, Bloomberg Certification(BMC)

EDUCATION

Pace University, Master of Computer Science | **GPA: 3.97 / 4.0**

(Expected May 2025) Manhattan, NY