

MOUNISH NANU

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Education

University of North Carolina - Charlotte

Master Of Science, Computer Science

August 2024 – Dec. 2025

4/4 GPA, Charlotte, NC

Technical Skills

Programming Languages: Java, Python, JavaScript, TypeScript, C, C++, Scala, Shell Scripting, SQL

Technologies/Frameworks: Spring Boot, React, Node.js, Tailwind, RESTful API, OAuth

Tools: Git, GitHub, Jira, Jenkins, Zephyr, CI/CD, Docker, Kubernetes, Postman, Linux, VS Code, IntelliJ.

Cloud Platforms : AWS (EC2, RDS, EMR, S3, Lambda, IAM, CloudWatch)

Others : Kafka, Redis, Eureka, Resilience4j, OOP & Design Patterns, Microservices, Distributed Systems, Data Structures

Experience

Complama , USA

Full Stack Developer Intern

June 2025 – Present

Detroit, Michigan

- Developed responsive and interactive **User Registration, Login, and Workspace Management** pages to streamline onboarding and improve user experience across devices.
- Integrated **OAuth 2.0 authentication** with Google and Microsoft accounts to enable seamless, secure login for both individual and enterprise users.
- Designed a robust **post-OAuth onboarding flow** to collect user info like company name and terms acceptance.
- Built a scalable **workspace creation and redirection system** with domain-matching logic to support seamless workspace setup.
- Implemented **admin-facing features** for managing workspace join requests, including triggering notifications to admins and granting access upon approval.
- Wrote and maintained **test cases using Zephyr and Postman**, validating user flows like authentication, onboarding, and workspace access to ensure stability across feature iterations.
- Tech Stack:** React, Spring Boot, MySQL, OAuth 2.0, REST APIs, Git, SDLC practices

University Of North Carolina at Charlotte Charlotte, USA

Teaching Assistant

Jan 2025 – May 2025

- Assisting Dr. Li Yang in delivering engaging instruction on foundational Artificial Intelligence topics.
- Teaching key AI concepts, **including probability & information theory, search techniques, knowledge representation, Bayesian networks, and foundational machine learning.**
- Ensuring students develop a strong understanding of AI fundamentals to prepare them for advanced studies.
- Tech Stack:** Python, Statistics, Jupyter notebooks, Search Algorithms.

Projects

PayNGo: A Secure Transaction Service API | Java, Spring-Boot, Payment Gateway, OAuth, Redis January 2025

- Built and deployed **15+ RESTful APIs** for product and transaction management, enabling real-time CRUD operations.
- Integrated **Stripe Payment Gateway** using the **Adapter Design Pattern**, simulating **1,000+ secure transactions** with a **99.9%** success rate.
- Implemented **OAuth 2.0 authentication** with role-based access control, reducing unauthorized access by **95%**.
- Leveraged **Redis caching** and **Apache Kafka** to reduce latency by **90%** and enable real-time event-driven workflows.
- Enabled **Service Discovery** via Eureka for dynamic registration and load-balanced communication between microservices.
- Implemented **Resilience4j** circuit breakers, retries, and fallbacks to ensure fault tolerance and high availability.
- Handled duplicate payment requests safely with **idempotent transaction logic** using Redis.
- Containerized microservices using **Docker** and orchestrated them with **Kubernetes** for scalable and isolated deployments.
- Simulated real-world **financial operations**, modeling credit/debit flows and fraud-safe transaction pipelines.

Leadership / Extracurricular

- General Secretary:** Association of CSE, representing the whole department in the collage final year.
- Mess committee leader in hostel, representing (200+ computer science students)
- Led the core team responsible for organizing the cultural fest, Rhapsody with 500+ participants.