

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, HTML, CSS, JavaScript, C++, C, Shell-Scripting, SQL.
Technologies/Frameworks: Spring Boot, React, Node.js, TypeScript, Tailwind, RESTful API, OAuth
Tools: Git, GitHub, Jira, Jenkins, Figma, CI/CD, Docker, Postman, Linux, VS Code, IntelliJ, Zephyr.
Cloud Platforms : AWS (EC2, RDS, EMR, S3, Lambda, IAM, CloudWatch)
Others : Kafka, Redis, Relational Databases, System-Design, Microservices, Distributed Systems.

Experience

Complama , USA

Full Stack Developer Intern

June 2025 – Present

Detroit, Michigan

- Developed responsive and interactive **User Registration and Login Pages** using React, Spring Boot, and MySQL.
- Integrated **OAuth 2.0 authentication** with Google and Microsoft accounts to streamline the signup/login experience.
- Designed and implemented a robust **post-authentication onboarding flow** to collect additional user details (e.g., company name, terms acceptance) after OAuth login, ensuring a complete registration process.
- Built a dynamic **workspace creation and redirection mechanism**, allowing first-time users to create a company-specific workspace and returning users to be routed directly to their existing workspace.
- Implemented detailed **logging and RESTful APIs** for user validation, error handling, and secure data persistence.

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 over **15+ RESTful APIs** to manage products and transactions, enabling real-time CRUD operations.
- Designed and implemented a secure **OAuth 2.0-based authentication system**, reducing unauthorized access risks by over **95%** and supporting scalable role-based access control.
- Integrated the **Stripe Payment Gateway**, enabling fast and secure payment processing for over **1,000+ simulated transactions**, achieving 99.9% success rates in test cases.
- Leveraged **Redis caching and Apache Kafka** to reduce product retrieval latency by **90%** and enable real-time event-driven communication across services.
- Followed best practices in **modular design, layered architecture**, and dependency injection, increasing code reusability and reducing onboarding time for new developers by **40%**.

ShopEase UI: A React-Powered E-Commerce Experience | *JavaScript, React, Redux*

October 2024

- Developed a dynamic e-commerce application from scratch using React and integrated Redux for centralized state management across **20+ components**, improving code maintainability by **40%**.
- Implemented key features such as a product rating system, cart functionality, and category-wise product display, resulting in a **30% increase in user engagement** during testing.
- Ensured a responsive and seamless UI/UX by following modern design principles and building **fully reusable React components**, achieving **100% responsiveness** across desktop and mobile devices.

Leadership / Extracurricular

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