

# Adnan Mohsin Ali

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## SUMMARY

Innovative Software Engineer with 2.5+ years of experience in developing scalable backend solutions and improving application efficiency by leveraging advanced data structures and modern frameworks. Proven expertise in microservices architecture, event-driven systems, and Agile development processes.

## EDUCATION

**Master of Science, Computer Science**, University of Massachusetts Boston (GPA: 3.92/4.0) Sep 2022 - May 2024  
Relevant Coursework: Data Structure and Algorithms, Object Oriented Design & Programming (JAVA)

**Bachelor of Technology, Information Technology**, Pune University (GPA: 8.56/10) Aug 2016 – Jun 2020

## EXPERIENCE

**Lecturer** Jul 2024 - Present  
University of Massachusetts Boston Boston, MA

- **Delivered** engaging lectures on core **Java programming** and **advanced data structures**, equipping students with practical problem-solving skills for software engineering roles.
- Supervised and **mentored 10+ student-driven software development projects**, collaborating with clients from the UMass Venture Development Center to implement scalable solutions by incorporating real-world software lifecycle case studies.

**Software Engineer Intern** Dec 2023 – Jul 2024  
WhoozCooking Inc Boston, MA

- Developed **RESTful APIs** for admin functionalities, **automating JSON parsing from Excel files**, which reduced onboarding processes by 50%.
- Integrated **third-party APIs** including **Stripe** for secure payment processing and **DoorDash** for dynamic delivery fee calculation, improving backend efficiency by 30%.
- Architected a **microservices**-based solution utilizing **AWS DynamoDB** for **real-time data triggers** and **Kafka** for inter-service communication, ensuring seamless scalability and reliability.
- Designed and implemented services on **Kubernetes** to deploy **microservices over Amazon EKS**, ensuring consistent runtime environments across development, staging, and production pipelines.
- **Streamlined deployment lifecycle** by contributing to a CI/CD pipeline setup with Git and Jenkins, enhancing development workflows and reducing manual intervention.

**Associate Software Engineer** Sep 2020 - Jul 2022  
TIBCO Software Pune, India

- Engineered REST APIs for an analytical web application using a **microservices architecture**, decreasing **data transfer latency** by 20% and improving overall **system uptime**.
- Accelerated **web page load speeds by 15%** through the implementation of **local storage techniques**, optimized caching strategies, and efficient DOM manipulation.
- Designed and **optimized 100+ database objects** across NoSQL, MongoDB, and SAP BW/4HANA, enabling faster data retrieval and smooth cross-platform integration.
- **Validated and documented** RESTful APIs using tools like **Postman** and **Thunder Client** to guarantee consistent functionality across multiple deployment environments.
- Collaborated within cross-functional team through all phases of **software development life cycle (SDLC)** by following **Agile Scrum methodology** to deliver high-quality software products from concept to deployment.

## PROJECTS AND LEADERSHIPS

**Flush-Email – Email Automation Platform[Personal Project]** (Next.js, Node.js, GPT) Aug 2024 – Sep 2024

- Created an email automation tool for personalized cold email generation using GPT API, improving user productivity.
- Integrated email tracking and recruiter feedback analytics, streamlining follow-up management and improving insights.

**Class Scheduler Application** (React.js, Docker, MongoDB, Prisma) Jul 2024 – Sep 2024

- Developed a class scheduling platform using React.js with a dynamic user interface and Prisma ORM with MongoDB for seamless database operations and efficient data modeling.
- Containerized the application using Docker to ensure consistent environments across development and production.

**EasySplit – Expense Tracker [Personal Project]** (Next.js, Kafka, Python, PostgreSQL) Apr 2024 – Jun 2024

- Developed server-side rendering (SSR) app for tracking expenses, incorporating OCR to convert receipts into JSON entries.
- Enabled real-time updates and notifications using Kafka and WebSockets integrated with RESTful APIs.

## SKILLS

<b>Programming</b>	Python, Java, JavaScript, TypeScript, HTML, CSS, SCSS
<b>Frameworks and Tools</b>	React, Next, Django, Node, Redux, Postman, Thunder Client, Cypress
<b>Databases</b>	PostgreSQL, MySQL, Oracle SQL, MongoDB, DynamoDB, Snowflake
<b>Miscellaneous</b>	Docker, Kubernetes, Git, Jira, AWS, Kafka, TestNG, VS Code, Restful API, Confluence