

Adnan Mohsin Ali

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EDUCATION

Master of Science, Computer Science, *University of Massachusetts Boston* (GPA: 3.92/4.0) Sep 2022 - May 2024
Relevant Coursework: Object-Oriented Programming (Java), Web Application Development, Advanced Databases, Cloud Computing

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

EXPERIENCE

Software Engineer Intern Dec 2023 – Jul 2024
WhoozCooking Inc | *Food Delivery and Logistics Industry* Boston, MA

- **Spearheaded** the development of a **food delivery platform** with a **team of 4**, integrating real-time tracking, chef profiles, and meal customization using **JavaScript**, **Node.js**, and **MongoDB**.
- Built reusable **React.js** components with **Redux**, using **TypeScript** and **JavaScript** to improve performance, maintainability, and **reduce load time by 30%**.
- **Implemented webhooks** to automate **DoorDash API integrations** for real-time delivery updates and **dynamic fee calculations**, enhancing response times and order accuracy.
- Integrated secure **user authentication** via **JWT**, **OAuth 2.0**, and **Passport.js**, ensuring access control and API endpoints security.
- 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** with **GitHub Actions**.
- Streamlined deployment by setting up a **CI/CD pipeline** using **Git** and **Jenkins**, improving workflows and reducing manual tasks.

Associate Software Engineer Sep 2020 - Jul 2022
TIBCO Software | *Enterprise Software and Analytics Industry* Pune, India

- **Migrated** legacy systems to the **cloud** and **engineered RESTful APIs** within a **microservices architecture**, reducing data **latency by 20%** and enhancing system uptime.
- Improved **web page load speeds** by **15%** using **PWA**, optimized **caching**, **cookies** strategies, and efficient DOM manipulation.
- Developed responsive UIs with **Material-UI** and **Tailwind CSS** and interactive React.js dashboards using **D3.js** and **Chart.js** for large-scale data analysis, improving visual consistency and **reducing UI dev time by 20%**.
- Designed and Optimized **100+ database** objects in **NoSQL**, **MongoDB**, and **SAP BW/4HANA** for faster retrieval and integration.
- Validated and **documented RESTful APIs** using tools like **Postman** and **Thunder Client** to ensure consistent functionality across multiple deployment environments.
- Configured **AWS CloudWatch** for real-time **monitoring**, **logging**, and alerts to detect and resolve microservice bottlenecks issues.
- Collaborated with cross-functional teams through the **SDLC** using **Agile Scrum methodology** to deliver high-quality software.

PROJECTS

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

- Created an email automation tool for personalized cold email generation using **GPT API** and **Prisma**, improving user productivity.
- Integrated **Amazon RDS (MSSQL)** for managing email data and **S3 buckets** for secure attachment storage and retrieval.
- Configured **Nginx** as a reverse proxy for load balancing and **API routing**, improving system reliability, scalability, and uptime.

Class Scheduler Application [UMass Boston] (React.js, Docker, MongoDB, Mongoose) Jul 2024 – Sep 2024

- Built a class scheduling app with **React.js** and **Mongoose ORM**, enabling dynamic UI and seamless database operations.
- Containerized the application with **Docker**, ensuring consistent environments across development, testing, and production.
- Designed **gRPC APIs** for efficient inter-service communication in a microservices setup, improving data exchange by 15%.

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**, **WebSockets**, and **RESTful APIs** for seamless data flow.
- Developed a **high-performing SPA**, improving **page load times by 30%** and enhancing overall user experience.

SKILLS

Programming	Python, Java, JavaScript(ES6+), TypeScript, HTML, CSS, SCSS
Frameworks and Tools	React, Next, Django, Node, Redux, Postman, Thunder Client, Cypress
Databases	PostgreSQL, MySQL, MSSQL, Oracle SQL, MongoDB, DynamoDB, Amazon RDS
DevOps	Docker, Kubernetes, AWS (Lambda, EC2, S3)
Miscellaneous	Git, Jira, Confluence, Kafka, Restful API, Jenkins

LEADERSHIP EXPERIENCE

Lecturer Jul 2024 - Present
University of Massachusetts Boston | *Higher Education Industry* Boston, MA

- Delivered courses on Java programming, data structures, and algorithms, while introducing students to serverless architectures (AWS Lambda, Azure Functions) and modern DevOps practices (Docker, Kubernetes, Jenkins, GitHub Actions).
- Mentored 10+ student projects, collaborating with UMass Venture clients to deliver scalable solutions using Agile practices.