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 and Agile development.

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%.
- Enhanced application security by implementing **OAuth2** and **JWT-based** authentication, ensuring robust data integrity and privacy compliance.
- Architected a **microservices**-based solution utilizing **AWS DynamoDB** for **real-time data triggers** and **Kafka** for inter-service communication, ensuring seamless scalability and reliability.
- Streamlined the deployment lifecycle by contributing to a **CI/CD pipeline setup with Git**, 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 MySQL, 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, Prisma)   Aug 2024 – Sept 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.

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.

Tutor Scheduling Application for UMass Boston (Django, Python, JavaScript)   Sep 2023 – Dec 2023
- Built a scheduling application using Django, hosted on an AWS EC2 instance, with RESTful API endpoints for user operations.
- Implemented real-time notifications for tutor availability using WebSockets, enhancing user interaction.

SKILLS

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