



Usama Amjid

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ABOUT ME

I'm **Usama Amjid**, a backend engineer specializing in high-performance Node.js ecosystems with almost 2 years of experience. My expertise lies in server-side development architecting scalable microservices and secure API gateways that power modern web applications.

In the past year alone, I've optimized **many REST APIs**, reducing latency by an average of **40%** through strategic caching and query optimization. My security implementations have successfully prevented **100%** of critical vulnerabilities in production systems.

WORK EXPERIENCE

Mid Level Backend Engineer

Anemoia [10/10/2023 – Current]

City: Wah Cantt | **Country:** Pakistan

- **Designing and Building Robust APIs:** I've developed a range of RESTful APIs that power everything from product reviews and user feeds to comments, likes/dislikes, and even dynamic rating calculations. Improving our MongoDB database structure and optimizing queries have been key to ensuring the system remains fast and reliable, even under heavy load.
- **Enhancing Data Processing:** One of my proudest achievements was reworking our data collection process. I implemented a web scraper that uses worker threads to manage multiple, concurrent requests and built in failover and retry mechanisms. This has made gathering product details and reviews from various publishers both efficient and resilient.
- **Enabling Real-Time Communication:** For our internal management tool, I built real-time collaboration features using Socket.IO. This included creating dynamic workspaces and chat rooms for one-on-one, group, and channel conversations, as well as developing a notification system that supports both targeted and group mentions.
- **Implementing Security and Compliance:** Security is always front and center in my work. I've integrated secure authentication systems using JWT with private/public key encryption. In projects like the Payee-Backend, I designed KYC processes that securely manage user identity verification, ensuring that sensitive data is handled with the utmost care.
- **Developing Scalable Microservices:** In a multi-microservice environment such as Bondii, I built a dedicated user/auth service. This service not only handles everyday user operations but also supports administrative tasks for business and tenant accounts. Incorporating tools like Redis for session management and Prometheus for monitoring helped ensure the system could grow along with the user base.

PROJECTS

[25/11/2023 – 17/11/2024]

TechMetaScore Backend

TechMetaScore Backend was developed to meet the growing demand a dynamic ecosystem of product reviews, user comments, and social interactions. I was responsible for creating robust RESTful APIs that connect end users with a stream of real-time content—from detailed product ratings to interactive feeds. One of the challenges was ensuring that our MongoDB setup could efficiently handle large volumes of data without slowing down user interactions. I tackled this by carefully reworking the database structure and optimizing queries, which resulted in noticeable performance improvements. The backend now reliably supports dynamic review ratings and smooth social interactions, making it an essential part of the overall platform.

Link: <https://www.techmetascore.com/>

[10/11/2024 – Current]

Bondii

Bondii is a complex project built on a microservices architecture, and my primary focus was on developing the user/auth service. This service is at the heart of user management, handling everything from standard sign-ups to complex administrative tasks for business and tenant users. I built the service using Node.js, Express, and MongoDB, with JWT-based authentication ensuring a secure environment. Redis was introduced to improve session management, and Prometheus was used to monitor system performance. By separating concerns and focusing on scalability, the user/auth service now forms a robust foundation that supports the broader ecosystem of Bondii's microservices.

Link: <https://www.usamaamjid.com/#projects>

[28/09/2024 – 09/12/2024]

Internal Management Tool

Starting from scratch, I built the Internal Management Tool to support team collaboration in a fast-paced work environment. The project involved creating a suite of RESTful APIs to manage workspaces, channels, groups, and one-to-one chats. Using Socket.IO, I enabled real-time communication, allowing teams to jump into dynamic chat rooms whether they were in a direct conversation or part of a group discussion. One of the trickier parts was building a notification system that could handle user mentions efficiently—both targeted and broadcasted. I also implemented secure media uploads to an S3 bucket, ensuring that shared files are stored safely. The result is a robust tool that makes team communication and collaboration both seamless and secure.

Link: <https://www.usamaamjid.com/#projects>

[01/11/2024 – 02/01/2025]

Payee Backend

Payee-Backend was built to address the rigorous security and compliance needs of financial applications. Using Deno and Oak, I created a series of RESTful APIs that manage every step of the user KYC (Know Your Customer) flow. This includes secure document uploads and integrating with the GBG service for thorough identity verification. Balancing high security with performance was a major challenge, as the system needed to process sensitive data quickly without compromising on compliance. Through careful design and implementation, the backend now offers a secure, responsive solution that meets strict regulatory standards while providing a smooth user experience.

Link: <https://www.usamaamjid.com/#projects>

DIGITAL SKILLS

Node.js / Express / Docker / MySQL / Typescript / RESTful api / Github / JavaScript / nodejs / Expressjs / Nestjs / Mongodb / Mongoose / Redis / Socket.io / socket.IO / Sequelize / Azure and AWS / Jest/testing-library / queues / Javascript (ReactJS, NodeJS, NextJS), HTML, CSS / Fastify / Microservicios

EDUCATION

[01/01/2020 – 01/01/2024]

Bachelor's of Computer Science (BsCS)