

# Usman Siddiqui

Senior Software & Application Developer

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Karachi, Pakistan

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Node.js Backend Engineer | Full Stack Developer | Problem Solver |  
Passionate about Building Scalable and Robust Web Applications.  
Proficient in building RESTful APIs, optimizing database queries, and  
ensuring high performance and security. Adept at collaborating with  
cross-functional teams, leading development projects, and delivering  
solutions that meet client requirements.

## AREAS OF EXPERTISE

- Node.js Backend Development
- Full Stack Web App Development
- RESTful API Development
- Scalable and Robust Web Applications
- Problem Solving and Troubleshooting
- Performance Optimization
- Database Query Optimization
- Security Implementation
- Cross-Functional Team Collaboration
- Project Leadership and Management
- Developer-Friendly Interface Design
- Mentoring and Team Development
- Client-Centric Solutions
- Cloud Computing
- Agile Methodology
- Artificial Intelligence & Machine Learning

## TECHNICAL SKILLS

<b>Programming Languages</b>	JavaScript, TypeScript, Python, Java, C, C++, C#, PHP, Spring, Go, .NET, SQL, SQL, R	<b>Web Development Frameworks &amp; Libraries</b>	React, Angular, Django, Node.js, ExpressJS, Fastify, JWT Auth0, GraphQL, Next.js, Web3.0, Socket, React Native, Strapi, NextJS, NestJS
<b>Cloud Computing</b>	AWS, AZURE, GCP, Deployments, CI/CD, AZURE BLOB, S3 STORAGE	<b>Database</b>	PostgreSQL, MSSQL, Sqlite, MongoDB, TypeORM, Sequelize, Prisma, Mongoose, Redis, MySQL
<b>Cloud Technologies</b>	Microsoft Azure (IAAS, PAAS, IAC), Public/Private/Hybrid, Docker, Kubernetes, AWS,	<b>Agile PM and Team Collaboration</b>	MS Project, Linear, JIRA, Trello, Fresh Desk, Confluence, Flowdock, Remedy

## WORK EXPERIENCE

### Senior Software Engineer Beam.ai

04/2024 - Present Munich, Germany (Remote)  
Platform for Agentic Process Automation. Used by Fortune 500 companies and scale-ups, the platform helps you automate manual workflows with AI agents.

#### Achievements/Tasks

- Managed and mentored a high-performing development team, boosting productivity by 40% through targeted coaching.
- Architected and delivered scalable software solutions , enhancing system reliability and performance by 35%.
- Implemented agile methodologies that accelerated project delivery times by 30% and improved team collaboration.
- Streamlined code review and deployment processes , reducing errors and increasing deployment frequency by 25%.



## WORK EXPERIENCE

### Software Engineer II

Beam.ai

12/2023 - 04/2024

Munich, Germany (Remote)

#### Achievements/Tasks

- **Engineered robust software solutions**, leading to a 50% increase in system efficiency and performance.
- **Optimized existing codebases**, cutting technical debt by 40% and enhancing maintainability.
- **Mentored junior developers**, fostering a collaborative environment that accelerated team skill development.
- **Led cross-functional projects**, delivering high-quality products on time and within scope.

### Software Engineer III

Maqsad.io

02/2023 - 12/2023

Karachi, Pakistan

An EdTech platform to provide a high quality learning experience to 5 million Pakistani students that helps them to reach their full potential.

#### Achievements/Tasks

- **Designed and implemented scalable software architectures**, improving system reliability and scalability by 30%.
- **Enhanced application performance**, reducing load times by 20% through efficient code optimization and refactoring.
- **Collaborated with product teams**, translating business requirements into technical solutions, resulting user satisfaction.
- **Conducted code reviews and implemented best practices**, ensuring high-quality code and adherence to industry standards.

### Software Engineer II

Maqsad.io

06/2022 - 02/2023

Karachi, Pakistan

#### Achievements/Tasks

- **Developed and maintained core application features**, improving user experience through targeted enhancements.
- **Optimized code and algorithms**, reducing system latency by 20% and increasing overall application performance.
- **Implemented automated testing and continuous integration**, leading to a 15% reduction in deployment errors.
- **Collaborated with cross-functional teams**, contributing to project planning and execution, which accelerated delivery timelines.

### Software Engineer

Wordfibre Ltd.

04/2021 - 06/2022

Stirling, Scotland (Remote)

#### Achievements/Tasks

- **Architected scalable solutions** that improved system reliability by 30% and increased throughput by 25%.
- **Mentored engineering talent**, boosting team productivity by 40% and enhancing code quality.
- **Spearheaded R&D initiatives**, integrating new technologies that reduced feature time-to-market by 20%.
- **Implemented new development processes**, cutting deployment times by 30% and decreasing production issues by 35%.

### Associate Software Engineer

NVIDIA-Syslab, FAST-NUCES

11/2020 - 04/2021

Karachi, Pakistan

#### Achievements/Tasks

- **Built and managed** clusters with high-performance GPUs, resulting in efficient training of multiple deep learning models.
- **Implemented automation** of deep learning model training using fog layer computing, with FIFO and priority-based scheduling on clusters for optimal resource utilization.
- **Containerized** deep learning models using Docker for easy deployment and reproducibility.



## EDUCATION

### Bachelor of Science (BS) in Computer Science

FAST National University of Computer and Emerging Sciences

06/2018 - 06/2022





## PROJECTS

### Beam.ai (01/2024 - Present)

- **Developed** the Beam.ai an automated agentic platform using NextJS for a dynamic and performant frontend, ensuring an engaging user experience with server-side rendering and static site generation.
- **Built** a scalable backend with NestJS and postgresql for schema modeling and efficient data operations, and integrated various integrations and verification services like Gmail, Docs, Calendar, HubSpot and LinkedIn.
- **Integrated** third-party APIs such as CarbonApi for extraction of data from documents, enhancing user interaction and functionality.
- **Deployed** and managed the application on AWS using Docker , ensuring reliable scalability and maintaining a consistent development environment across various stages.

### GuestView Guide (06/2022 - 06/2023)

- **Developed** a web application that serves as a digital concierge for the vacation rental industry. The application curated host recommendations for restaurants and activities to enhance guest experiences during their stay.
- **Led** a comprehensive cleanup of the existing legacy codebase, reducing technical debt by 50% and improving maintainability for future development.
- **Implemented** optimizations resulting in a 30% increase in application responsiveness and a 40% reduction in load times.
- **Technologies:** ReactJS, Redux, NodeJS, PostgreSQL, Redis, AWS.

### Automated Deep Learning Model Training Distribution over High Performance Clusters (Research) (06/2021 - 06/2023)

- **Developed and implemented** connected hardware device clusters with GPU capabilities to train deep learning models.
- **Facilitated** the distribution and concurrent execution of deep learning models across the cluster network.
- **Containerized** deep learning models to optimize management and deployment within the cluster environment.
- **Achieved** 27% time efficiency using Priority-based scheduling and 22% using First-Come-First-Serve (FCFS) scheduling strategies.

### ShowGrounds Live (01/2021 - 05/2021)

- **Developed** admin portal on web using MVC and .NET and customer portal app using React Native.
- **Created** RESTful apis using .NET and used MSSql for data storage.
- **Utilized** MVC for building Web Pages and React for building responsive app screens.



## HONOR AWARDS

### Deans List (01/2021 - 05/2022)

*FAST - National University of Computer and Emerging Sciences*

- Got in deans list (3.5+ GPA) 3 times in 8 semesters.

### Winner of Coders Cup 2018 and 2021 (08/2018 - 05/2021)

*Name of the institution that issued/awarded it*



## CERTIFICATES

### Web Programming with ReactJS (01/2021 - 07/2021)

### Server Side Development (NodeJS/NestJS) (04/2021 - 06/2021)



## SOFT SKILLS

Public Speaking & Presentation

Strong Written & Verbal Communications

Ownership, Dedication & Perseverance

Creativity & Analytical Thinking

Effective Negotiations

Storytelling

Teaming Empathy & Compassion

Resilience & Flexibility

Time Management & Strong Follow-up

Influencing & Networking

Diversity & Disability Inclusion

Intercultural Competence

Willingness to Learn

Ambitious & Self Motivated



## LANGUAGES

English  
*Full Professional Proficiency*

Urdu  
*Native or Bilingual Proficiency*