

Mohammed Junaid VP

Full Stack Developer (MERN)

mohammed.junaid.software@gmail.com | +91 7736355958 | LinkedIn | GitHub | Portfolio

PROFESSIONAL SUMMARY

Full-Stack Developer (MERN) with experience building and deploying production-grade web applications, AI-powered platforms, and real-time systems. Skilled in designing scalable frontend and backend architectures using modern JavaScript technologies, cloud infrastructure, and distributed systems. Focused on building scalable, maintainable, and production-ready software while collaborating effectively across engineering teams

SKILLS

Languages: JavaScript, TypeScript, HTML5, CSS3

Frontend: React, Next.js, Redux Toolkit, Zustand, Tailwind CSS, Framer Motion

Backend: Node.js, Express.js, REST APIs, Socket.io, WebRTC

Databases & ORMs: PostgreSQL, MongoDB, Redis, Prisma ORM, Mongoose

AI & Distributed Systems: Groq AI, Google Gemini AI, RabbitMQ, Google MediaPipe

Cloud & DevOps: AWS (EC2, ECR, RDS, S3, ElastiCache), Docker, Nginx, GitHub Actions, CI/CD

Authentication & Integrations: JWT, Google OAuth, bcrypt, Razorpay, Stripe, Resend

Developer Tools: Git, GitHub, Postman, Cloudinary, Zod, Axios

PROFESSIONAL EXPERIENCE

Full-Stack Developer (MERN) Intern

Aug 2025 – Present

Bridgeon Solutions | Onsite

- Developed and deployed production-grade full-stack web applications using React.js, Next.js, Node.js, Express.js, PostgreSQL, and MongoDB across client and internal products.
- Designed and integrated secure REST APIs with JWT authentication, role-based access control, input validation, and centralized error handling.
- Built real-time communication and collaboration features using Socket.io and WebRTC, leveraging Redis caching and RabbitMQ for asynchronous job processing.
- Containerized applications with Docker and deployed scalable services on AWS EC2 using Nginx, SSL, and automated CI/CD pipelines through GitHub Actions.
- Integrated third-party services including Stripe, Razorpay, Cloudinary, and Resend to support payments, media management, authentication, and transactional emails.
- Collaborated with cross-functional engineering teams in Agile sprints to deliver production-ready features and meet sprint objectives.

PROJECTS

SkillForge AI

AI-Powered Technical Interview Platform (Bridgeon Solutions)

- Built an AI-powered technical interview platform enabling HR teams to conduct automated technical interviews using **Groq AI (Llama 3.3 70B)** for dynamic question generation and automated answer evaluation.
- Implemented real-time video interviews using **WebRTC**, Socket.io, integrating **Google MediaPipe** for malpractice detection and a Monaco Editor with **Judge0** for live code execution.
- Designed a scalable backend using **PostgreSQL (AWS RDS)**, **Redis (ElastiCache)**, and **RabbitMQ** to enable caching, asynchronous processing, and automated take-home assignment evaluation.
- Deployed Dockerized services on **AWS EC2** with Amazon ECR and automated **CI/CD pipelines** using GitHub Actions, while generating PDF interview reports with **@react-pdf/renderer** and email notifications using Nodemailer.
- **Source Code (GitHub)**

ScrapLink

Scrap Collection Marketplace (Client Project)

- Developed a full-stack marketplace connecting homeowners and businesses with verified scrap collectors, streamlining scrap collection across Kerala.
- Implemented **GPS-based pickup scheduling** with **Google Maps** integration and **real-time order tracking** using **Socket.io**.
- Built a secure authentication system using **StartMessenger SMS OTP**, with **Prisma ORM** and **PostgreSQL** for scalable data modeling and management.
- Integrated **Razorpay** for payment processing and deployed Dockerized services on **AWS (EC2, ECR, RDS, ElastiCache)**, leveraging **Cloudinary** for image storage and media delivery.
- Containerized services using **Docker** and **Nginx**, with automated **CI/CD pipelines** through **GitHub Actions** for zero-downtime deployments.

UrbanIQ

Real Estate & Property Management Platform (Bridgeon Solutions)

- Engineered a modular **domain-driven REST API** using **Node.js**, **Express.js**, **TypeScript**, **MongoDB**, and **Redis** to build a scalable backend architecture.
- Implemented **multi-tier Redis caching** for email OTP verification, pending registrations, and refresh token revocation to support secure stateless session management.
- Architected an event-driven **real-time communication** layer using **Socket.io** for live notifications, buyer-agent-owner messaging, and automated visit scheduling.
- Developed a hybrid authentication system combining **JWT**, **Google OAuth 2.0**, **bcrypt**, and multi-step email OTP verification using **Nodemailer**.
- Designed role-based dashboards for **Admins, Owners, Agents, and Buyers** using **Next.js**, **React**, **Tailwind CSS**, and **Zustand**, with interactive property mapping powered by **Leaflet**.
- Built an image processing pipeline using **Multer** and **Sharp** to optimize uploads into **WebP** format before storing them in **AWS S3**, and integrated **Razorpay** for premium listing payments.
- **Source Code: Frontend (GitHub) | Backend (GitHub)**

Mallzo

Mobile-First Mall Discovery & Rewards Platform (Startup – In Development)

- Leading the development of a mobile-first platform for mall and store discovery, featuring **budget-based search**, the AI shopping assistant (**Zoe**) powered by **Gemini AI**, guided trip planning, and group budget splitting.
- Developed **BudgetSplitterService** and **TripPlannerService** to generate personalized time-blocked itineraries and automate cost splitting for group mall visits.
- Implemented **multimodal semantic product search** using a custom **Python CLIP** microservice and **pgvector-powered similarity search** on **PostgreSQL (AWS RDS)** for image-to-product discovery.
- Designing a **gamified rewards ecosystem** featuring login streaks, referrals, daily spins, and an **HTML5 Canvas-based Brand Ninja** slice-and-win game with telemetry and score validation.
- Engineered an interactive **3D advertisement engine** using **React Three Fiber** and **React Three Rapier** to render swipeable, physics-based promotional badges.
- Architecting the platform using **Next.js**, **TypeScript**, and **Tailwind CSS** on the frontend, with a **Node.js** backend integrating AI-powered microservices.

EDUCATION

Bachelor of Computer Applications (BCA)

Manipal University Jaipur

08/2025 – 05/2028 (Pursuing)

Jaipur, India