

# Muhammad Junaid Javed

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Senior Full-Stack Engineer with 5+ years delivering end-to-end features on production SaaS, EdTech, and healthcare-adjacent platforms. Deep expertise in React, TypeScript, and Node.js/Express, with a strong track record of owning complex backend services, performance-critical APIs, and scalable frontend architecture. Experienced in code reviews, cultivating engineering best practices, and engaging directly with clients. Actively integrates AI tools including GitHub Copilot, Claude, and Gemini API into daily engineering workflows for code generation, debugging, and intelligent feature development.

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## TECHNICAL SKILLS

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<b>Languages:</b>	TypeScript, JavaScript (ES6+)
<b>Frontend:</b>	React.js, Next.js, Redux, MobX, React Query, React Hook Form, Ant Design, Tailwind CSS
<b>Backend:</b>	Node.js, Express.js, REST APIs, MongoDB, PostgreSQL, OpenSearch
<b>Cloud &amp; Infra:</b>	Firebase (GCP), Vercel, CI/CD pipelines, cloud-deployed SaaS (AWS/GCP environments)
<b>Testing:</b>	Jest, React Testing Library, Unit & Integration Testing, code reviews
<b>Performance:</b>	Vite, Rollup, Bundle Splitting, Lazy Loading, Code Splitting
<b>Tools:</b>	Git, Stripe, Capacitor (iOS & Android), ECharts, Chart.js, SIP.js, Agile/Scrum
<b>AI Tools:</b>	GitHub Copilot, Claude (Anthropic), Gemini API integration - daily use for code generation, debugging, and AI-powered feature development
<b>Accessibility:</b>	ADA/WCAG compliant UI development

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## EXPERIENCE

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### Tkxel · Senior Full-Stack Engineer

Aug 2022 - Present

*Pendulum (Analytics SaaS) · React · TypeScript · MobX · Node.js · Python · OpenSearch*

- Owned drag-and-drop folder reordering end-to-end - React UI with optimistic updates on the frontend and full backend API design: neighbor-based positioning contract, deferrable unique constraints, and advisory locks to handle concurrent writes safely.
- Designed and shipped analyst-facing filter infrastructure end-to-end: range slider UI on the frontend and extended the search API to compute global min/max statistics via OpenSearch aggregations, gated behind a feature flag to avoid breaking existing consumers.
- Built a topic modeling workflow end-to-end covering content export, translation, bookmarking, and proactive stale-job detection to surface processing failures to users.
- Improved dashboard export performance by switching to a non-blocking image generation approach; reduced redundant API traffic through response caching and lazy loading.
- Diagnosed and resolved customer-reported performance regressions including slow data loading and degraded API response times; participated in code reviews to uphold engineering quality standards across the team.
- Leveraged GitHub Copilot and Claude daily for code generation, refactoring, and debugging; integrated Gemini API to power an AI-driven data-fetching feature, accelerating delivery and reducing boilerplate across the codebase.

*Ollivate (EdTech SaaS) · React · TypeScript · Redux · Node.js · PostgreSQL*

- Architected role-based learning flows, time-bound assessment systems, and certification workflows for anesthesia students; launched moderation admin panel that reduced instructor overhead across question, progress, and reporting workflows.

*IMS - Investigation Management System · React · Redux · Node.js · MongoDB · Ant Design*

- Built enterprise investigation workflows: advanced multi-criteria search, live news ingestion pipelines, and automated PDF/image reporting, eliminating manual reporting for a 5-person ops team.
- Designed high-performance analytical dashboards capable of handling large real-time datasets.

*Traver Connect (SaaS) · React · SIP.js · Node.js · REST APIs*

- Accelerated outbound campaign throughput by 40% by building campaign dashboards with SMS/email automation, SIP-based calling with guided scripts, and real-time monitoring.

**Solution Surface · Software Engineer**

Jan 2022 - Jul 2022

- Independently delivered a full POS system frontend on schedule; implemented an offline-first sync layer that queued all user actions locally and replayed them on reconnect, achieving zero data loss across all recorded outage events.
- Introduced Capacitor into the React codebase, consolidating web and mobile delivery into a single pipeline and eliminating separate iOS and Android release pipelines.
- Accelerated client reporting with a configurable invoice printer and one-click CSV/Excel export via REST API, reducing report generation time from 5+ minutes to under 10 seconds.

**Stack Intel · Software Engineer**

Mar 2021 - Nov 2021

- Designed role-based access control with 4 permission levels and Google OAuth integration, eliminating unauthorized access incidents post-launch.
- Delivered a full Stripe subscription system - tiered packages, free trials, and billing recovery flows - via REST API integration, improving payment conversion rate.
- Developed chart-to-PDF export pipelines, replacing a manual screenshot process used by the entire active user base on a daily basis.

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**EDUCATION**

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**Punjab University College of Information Technology (PUCIT), Lahore**

Sep 2017 - Jun 2021

*Bachelor of Science in Information Technology*