Farooq Lodhi

Senior Full-Stack Engineer

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Senior full-stack engineer with almost 10 years' experience building web products end to end. Strong in React and TypeScript on the frontend and Node.js, Ruby on Rails and C#/.NET on the backend. Deep experience in enterprise integrations — Microsoft 365, Teams, Copilot, Power BI and Jira — and in authentication and identity: OAuth 2.0, SAML, JWT/JWKS, token exchange, Entra ID On-Behalf-Of and MCP authentication. Owns features from spike and architecture through backend, frontend, production observability and customer rollout, and writes the design docs and interface contracts that let other teams build in parallel.

EXPERIENCE

Senior Full-Stack Engineer

Feb 2022 – Present

Workpath GmbH · Munich, Germany

B2B SaaS for strategy execution and OKRs: a multi-tenant Rails and React platform with ~90 enterprise tenants, ~5,000 weekly users and ~21M API requests a month at 99.9%+ uptime. Full-stack ownership across the Rails API, React web app and Microsoft Teams app.

Agentic AI on Teams and Microsoft 365 Copilot

- Designed and built an agentic assistant with tool access, delegated identity and streaming responses — first as a Teams app in 2022, then as a Microsoft 365 Copilot agent — owning multi-tenant auth, Cosmos DB token storage, Key Vault secrets, CI and release, through Microsoft Teams Store review.
- Rebuilt the bot as a channel-agnostic proxy to the AI agent service: streaming SSE responses rendered as Adaptive Cards, citations, follow-up suggestion chips, write-confirmation cards and feedback capture.
- Grew it from a tab and notification bot into a conversational agent that creates and updates users' OKRs, KPIs and initiatives. Teams monthly active users rose 54% after the agent launched and 76% in total once Copilot shipped.

OAuth 2.0 platform and enterprise identity

- Researched, designed and built the OAuth 2.0 platform end to end in Rails/Doorkeeper and React for MCP clients, the Teams app and the in-app AI agent: SAML and Google SSO, PKCE, refresh and revocation, and per-account app management. Five codebases, four client types.
- Added RFC 8693 token exchange so the in-app agent calls MCP tools as the signed-in user without a second login; tokens are tied to and revoked with the web session.
- Built Microsoft Entra ID On-Behalf-Of for enterprise customers: nine-step token verification (server-fixed RS256, issuer/audience binding, JWKS, rate limiting and audit logging), with no customer credentials stored and hourly re-validation instead of refresh tokens.
- Removed the second login that had been suppressing adoption of enterprise AI tools: after the OBO flow, internal AI apps reach the MCP as the signed-in user with one sign-in instead of two. MCP engagement started at ~300 users, grew 65% after the OBO flow and a further 35% after Copilot support.
- Hardened the token lifecycle — revocation on sign-in, sign-out and deactivation, refresh-token rotation — and cut redundant tokens by around 70% through scheduled cleanup, leaving one live token per user per app; also enabled the MCP to serve multiple AI clients and agents through one OAuth platform.

Integrations and data

- Power BI: built a visual picker and DAX query generator on the Power BI REST API (multiple measures, calculated columns, filters and cross-filtering) with preview and scheduled sync, so OKRs and KPIs update automatically.
- Jira Cloud: built the OAuth-based integration and its 2025 rewrite — every issue type becomes an initiative, linking works from Workpath and from inside Jira, existing links are migrated, and the app moved from Atlassian Connect to Forge.
- Jira Data Center: built and maintained the Java plugin — key results linked to epics, metrics and logging, Jira 10.3 compatibility, dark-theme support, vulnerability fixes and Marketplace release runbooks.

Observability, engineering practice and leadership

- Built a 20-panel Grafana/Loki dashboard to monitor the auth rollout in production, separating token failures from user-provisioning issues and spotting misconfigured clients.
- Owned and delivered 25 epics end to end (spike → design → tickets → backend → frontend → release): 9 independently with design sparring from the CTO, product and senior engineers, the other 16 with engineers across the team; authored 553 PRs (533 merged) across 7 repositories and reviewed ~850 from 15 colleagues (2022–2026).
- Authored 20+ design docs, RFCs and runbooks, and published four cross-team interface specs as interactive artifacts — agent token exchange, MCP identity exchange, Entra token verification and the Teams/Copilot contract — plus the architecture diagrams for the OAuth flow and the Teams app.
- Wrote the Teams release runbook and set up six engineers with release access so the app no longer depended on one person; hosted Frontend Weekly and knowledge-sharing sessions, and ran Miro sparring sessions for problem-solving and idea-sharing; co-managed production incidents, wrote the postmortems, and supported enterprise customers' IT admins through integration setup.
- Work AI-native: MCP-connected Jira, GitHub, Confluence and Grafana daily, plus custom Claude Code skills (Dependabot fixes, PR descriptions, branch cleanup) and CLAUDE.md conventions shared with the team.

Senior Software Engineer

May 2021 – Feb 2022

10Pearls LLC · Islamabad, Pakistan

- Built a cloud reporting and record-management platform for a large US law firm (250+ attorneys) from scratch in React and TypeScript: 15+ reusable components, Power BI report embeds, PDF exports and ~8 .NET Core APIs.
- Cut a data-scraping job's runtime by 30% by replacing its third-party library.

Senior Software Engineer

Sep 2019 – Apr 2021

Confiz Ltd. · Lahore, Pakistan

- Built the React/TypeScript frontend for a warehouse scheduling and inventory product used by a Fortune 500 pharmacy chain with 9,000+ stores: 20+ components, Bootstrap, Figma handoff and mobile-first design.
- Migrated a global food multinational's intranet CMS from .NET MVC and jQuery to React, improving performance and maintainability across 100+ countries.

Software Engineer

Feb 2018 – Aug 2019

Netsol Technologies · Lahore, Pakistan

- Backend engineer on a vehicle-finance platform used by 8,000+ daily users; built ~12 web services, resolved production issues and supported UAT.

Software Engineer

Jan 2017 – Feb 2018

E-strats · Islamabad, Pakistan

- Built frontend features and ~15 APIs for a field-service SaaS used by 30+ US companies and 400+ daily users; improved page load time with bundling, AJAX and CDNs.

EDUCATION

BSc Computer Science — FAST-NU, Islamabad · 2012–2016

Attended EuRuKo 2024 — European Ruby Conference, Sarajevo

SKILLS

Languages	TypeScript, JavaScript, Ruby, C#, SQL, Java, GraphQL, DAX
Backend	Node.js, Ruby on Rails, Doorkeeper, PostgreSQL, Redis, Sidekiq, Flipper, GraphQL, REST, RSpec, MongoDB, .NET Core/MVC
Frontend	React, Redux/redux-saga, TanStack Query, urql, react-hook-form, styled-components, HTML5, CSS3, SASS, Webpack, Vite, Jest, React Testing Library
AI & Observability	MCP, SSE streaming, Claude Code, Grafana/Loki, Sentry, GitHub Actions
Auth & Security	OAuth 2.0, SAML, JWT/JWKS, PKCE, RFC 8693 token exchange, Entra OBO, secret management
Microsoft	Teams platform (JS SDK, Teams Toolkit, Bot Framework, Adaptive Cards), Microsoft 365 Copilot custom engine agents, Microsoft Graph, Power BI REST/Embedded, Entra ID, MSAL, Azure (App Service, Cosmos DB, Key Vault, Blob Storage)
Atlassian	Jira Cloud (Connect, Forge), Jira Data Center (Java, Maven)
Earlier	WPF, MS SQL, jQuery, Bootstrap
Spoken languages	English (C2), German (A1, telc certificate), Urdu (native)