Hammad Masood

Senior Full-Stack Engineer & Team Lead

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Professional Summary

Senior full-stack engineer and team lead with 9+ years building and scaling web and mobile products across healthcare, teletherapy, SaaS and logistics. Deep Ruby on Rails expertise alongside Python, Rust, React, Vue.js, Next.js, and React Native and Ionic for iOS and Android. Owns features end to end, from client conversations and system design to production monitoring. Built a live video platform for telehealth sessions, cut application latency by 40%+, and has led and mentored remote engineering teams. Works fluently with AI-assisted tooling and comfortable as an individual contributor or team lead in a fully remote setup.

Technical Skills

Languages	Ruby, Python, Rust, Go, JavaScript, TypeScript, SQL
Backend	Ruby on Rails (9+ yrs), Python, Rust, REST and GraphQL APIs, PostgreSQL, Redis, Sidekiq, Elasticsearch
Frontend	React.js, Next.js, Vue.js, Hotwire / Stimulus JS, Tailwind CSS
Mobile	React Native, Ionic (iOS and Android)
Real-time & Video	WebRTC, Twilio Video, Vonage Video API (OpenTok), Twilio / SendGrid messaging
Cloud & DevOps	AWS (EC2, RDS, S3, Lambda, Cognito SSO, ElastiCache, WAF), Docker, Heroku, DigitalOcean, Nginx, GitHub Actions, CircleCI
Architecture	Microservices, multi-tenant schemas (Apartment gem), REST API design, ELK Stack, system design
Testing	RSpec, Capybara, TDD / BDD
AI & Tooling	Claude Code, Cursor, GitHub Copilot, LangChain, OpenAI / Anthropic APIs, RAG, pgvector, LLM integrations

Professional Experience

Senior Product Engineer | WeGuide

Jan 2021 – Present | Remote

Digital health and clinical research platform. Full product lifecycle ownership in a remote-first team.

- Own backend architecture end to end for a high-scale Rails application serving thousands of healthcare users, from design to production monitoring.
- Reduced application latency by **40%+** through PostgreSQL query optimization, Redis caching and Sidekiq background job tuning.
- Deliver client-requested features independently: designed RESTful APIs and integrated Twilio and SendGrid notification microservices against product requirements.
- Integrated AI-driven research workflows and autonomous subagents into the platform, improving clinical data parsing and insights.
- Maintain production infrastructure across AWS (EC2, RDS, S3, Lambda, Cognito SSO) and Heroku, with CI/CD pipelines on GitHub Actions.
- Championed AI-assisted development (Claude Code, Cursor) across the team, speeding up prototyping, code generation and automated test coverage.

Full-Stack Developer | Ambiki 2022 – 2024 | Remote

Practice management and teletherapy platform for therapists.

- Built many of the platform's teletherapy modules from start to finish, from database design and APIs through to the user interface.
- Built the **live video call platform** for telehealth sessions, working with custom WebRTC, Twilio Video and the Vonage Video API (OpenTok).
- Developed a large share of the platform's automations, removing repetitive manual work for therapists and their teams.
- Worked across the full stack with Ruby on Rails, Hotwire / Stimulus and Vue.js.

Senior Software Engineer & Team Lead | FliClicks 2016 – 2021 | Remote

Production web applications for US and EU clients. Engineering leadership, architecture and mentorship.

- Led engineering across multiple concurrent client projects as hands-on developer and technical lead, managing scope, architecture and delivery timelines.
- Modernized large Rails monoliths: optimized ActiveRecord queries, introduced Sidekiq workers and resolved bottlenecks on PostgreSQL databases with tens of millions of records.
- Established code review standards, TDD practices and RSpec test suites for a remote-first team, improving code quality and maintainability.
- Implemented HIPAA-compliant healthcare analytics and enterprise AWS Cognito SSO integrations for US healthcare clients.
- Mentored junior developers in Rails best practices, test-driven development and system design, raising team velocity and reducing bug rate.

Key Projects & Impact

Ambiki Telehealth Video | *Live video sessions for teletherapy*

- Built the in-product video call platform therapists use to run telehealth sessions with clients.
- Stack: Rails, Hotwire, Vue.js, WebRTC, Twilio Video, Vonage Video API (OpenTok)

PatientIQ | *US-based HIPAA-compliant healthcare platform*

- Optimized the Redis and Sidekiq caching layer to handle heavy patient engagement data loads; built real-time reporting and appointment workflows.
- Stack: Rails, React, PostgreSQL, Redis, Sidekiq, AWS

Gogen | *IT service and asset management platform*

- Architected core infrastructure from scratch, drove complex third-party integrations and set up automated PR review workflows.
- Stack: Rails, Vue.js, C# WPF, PostgreSQL, AWS (RDS, Elastic Beanstalk, EC2), Cognito SSO

NxtBroker | *Insurance and employee monitoring SaaS*

- Led Rails version migrations, architected a multi-tenant database schema (Apartment gem) and set up the ELK stack for centralized logging.
- Stack: Rails, PostgreSQL, Heroku, AWS, Elasticsearch / Logstash / Kibana

Education

BSc Computer Science | Lancaster University, England 2012 – 2016