Fahad Mushtaq

Senior AI Full-Stack Engineer

fahad.mushtaq300@gmail.com | fahadmushtaq.site | linkedin.com/in/fahad-mushtaq

PROFESSIONAL SUMMARY

Senior AI Full-Stack Engineer with 10+ years of software engineering experience, building production LLM features for healthcare. Delivers RAG assistants and real-time AI summarization for a value-based care platform used by clinicians and care teams at health systems and ACOs, along with computer-vision data labeling workflows and n8n automation. Works end to end, from AI pipelines and REST APIs to production React/Next.js web applications.

SKILLS

- **Generative AI & LLMs:** RAG pipelines, embeddings, semantic search, chunking, LLM integration, prompt engineering, grounding, LLM summarization, conversational AI, LLM evaluation and monitoring, AI guardrails and governance
- **Agentic & Real-time Systems:** Agentic workflow automation (n8n), real-time AI streaming (WebSockets), enterprise API integration
- **ML Data Operations:** Computer vision, human-in-the-loop labeling, label QA, dataset curation
- **Full-Stack Engineering:** React, TypeScript, Next.js, JavaScript, HTML, CSS, Tailwind CSS, Bootstrap, Kendo UI, Node.js, Express, MySQL, REST APIs, backend services, reusable component architecture, legacy platform modernization, Shopify
- **Leadership:** Team mentoring, code reviews, engineering standards, cross-functional delivery

PROFESSIONAL EXPERIENCE

Senior AI Full-Stack Engineer | Persivia | USA (Remote) | 2020 – Present

- Built a RAG clinical assistant in the Patient CMS that gives physicians source-cited answers using chunking, embeddings and semantic search.
- Implemented AI safety guardrails: input/output validation, sensitive-data protection, grounded-answer checks and low-confidence fallbacks.
- Set up LLM evaluation and monitoring to track answer relevance, faithfulness and accuracy in production.
- Built a real-time Jira escalation dashboard that uses LLM summarization to surface critical items, SLA risks and owners, with live updates over WebSockets.
- Built clinical dashboards that turn patient and care-management data into actionable views for clinicians and care teams.
- Built and maintained a reusable React component library adopted across multiple modules, keeping the UI consistent and reducing repeated development work.
- Partnered with backend engineers to define API data contracts and turn complex clinical data into clear, accessible interfaces that meet healthcare compliance and data-sensitivity requirements.
- Lead full-stack development of the core healthcare platform, including frontend modules, backend REST API integrations and legacy application modernization; mentor the team through code reviews.

Full-Stack Developer | Cyber Advance Solutions | 2018 – 2020

- Delivered full-stack web applications end to end, building React frontends, Node.js/Express REST APIs and MySQL data layers, from requirements and wireframes through deployment.
- Improved application performance across the stack by resolving UI bottlenecks, optimizing front-end assets and refining API and database interactions.

Earlier Career | 2016 – 2018

- Front-End Developer | Trangolabs | 2017 – 2018
- Associate Software Engineer | Wali Systems | 2016 – 2017

PROJECTS

AI & Full-Stack Engineer | PAVE – AI Pavement Evaluation Platform | Contract

- Integrated computer-vision ML models to detect and classify pavement defects (cracks, potholes, surface distress) in road-inspection imagery and auto-generate pre-labels.
- Built a human-in-the-loop labeling workflow where engineers review, correct and approve model-generated labels, reducing manual annotation effort.

- Built QA review and dataset-management flows to keep label quality consistent and organize labeled data for model training.

Automation & Shopify Engineer | Levers.health | Contract

- Built n8n automation workflows for a direct-to-consumer telehealth brand, syncing orders, subscriptions and customer data across commerce, subscription and review platforms, and triggering lifecycle notifications.
- Migrated the recurring-subscription system to a new provider and rebuilt the reviews integration, preserving customer data and billing continuity.
- Rebuilt the Shopify storefront and homepage with conversion-focused improvements across the customer journey.

EDUCATION

Bachelor of Science in Information Technology (BSIT) | Punjab University College of Information Technology | 2012 – 2016

CERTIFICATIONS

- Agentic AI – DeepLearning.AI
- Advanced AI – DeepLearning.AI
- Safe and Reliable AI via Guardrails – DeepLearning.AI