

Mohd Faraz

Software Engineer — AI-Integrated Systems

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Summary

Software engineer specializing in AI-integrated product development — building LLM-powered automation (Gemini API, agentic workflow orchestration, sandboxed code execution) into enterprise healthcare platforms at KareXpert. Full-stack across Angular, Node.js, and FastAPI, with a parallel 8-year systems background leading PitchBlack Recovery Project, a widely-used open-source Android recovery system. Comfortable owning AI features end-to-end: prompt/context design, reliability tuning, and the backend infrastructure to run them securely at scale.

Experience

KareXpert Technologies Pvt. Ltd. — Software Engineer (Apr 2026 – Present) | Software Trainee (Nov 2024 – Mar 2026) Nov 2024 – Present

- Built and shipped production LLM features by integrating Gemini AI models, including custom content parsing and “thinking” budget management to keep automated response generation fast and reliable.
- Architected an AI-driven Visual Workflow Orchestration Engine (Jan 2026 – Present) enabling dynamic node injection, automated input port synchronization, sandboxed Python script execution, and persistent memory stores for long-running agentic workflows.
- Executed major migration to Angular 19, adopting declarative control flow and optimizing for zoneless architecture to improve performance.
- Hardened system security by implementing FastAPI-based authentication, role-based access control (RBAC), and multi-tenant data isolation.
- Optimized reporting services with criteria-based filtering and automated attachment resolution, ensuring 100% data fidelity in high-compliance documentation.
- Refactored legacy backend services into modular components using Spring Boot and Python, improving system maintainability.

PitchBlack Recovery Project — Co-Founder & Core Developer, Open Source 2018 – Present

- Co-founded and lead one of the most widely used custom Android recovery projects.
- Developed C++/Go flashing utilities and automated installation pipelines for custom ROMs and secure updates.
- Ported and compiled recovery builds across dozens of OEM devices, resolving low-level kernel bugs.
- GitHub: github.com/PitchBlackRecoveryProject

CLO (CodeLinaro) — Team Leader Aug 2022 – Present

- Compiled CodeLinaro sources by extracting binaries from OEMs.
- GitHub: github.com/CodeLinaroCLO

Technical Skills

AI / LLM: Gemini API integration, prompt & context engineering, “thinking” budget tuning, agentic workflow orchestration, sandboxed code execution, RAG-style content parsing

Languages: Java, TypeScript, JavaScript, Python, C, C++, Bash, SQL

Technologies: Angular 19, FastAPI, Spring Boot, React, Next.js, TailwindCSS, Firebase, Git, Linux Kernel, OS

Tools: Android Studio, Figma, VS Code, MS Office

Education

Bachelor of Technology, Computer Science & Engineering 2020 – 2024
Moradabad Institute of Technology

High School 2017
Wilsonia College, Moradabad

Publications

Virtual Hands: Real Time Keyboard, Desktop & App Navigation using Gestures. 2022 ICFIRTP.
DOI: [10.1109/ICFIRTP56122.2022.10059450](https://doi.org/10.1109/ICFIRTP56122.2022.10059450)