Farhad Al-Amin Dipto

Dhaka, Bangladesh | +8801790747718 | alaminfarhad27@gmail.com Portfolio | GitHub | LinkedIn | Live: ScholarAI | YouTube (Demos)

Target & Summary

Target: Software Engineer, Applied — Emerging Talent (2026)

I ship end-to-end product features with React, Python (FastAPI), and Postgres, optimizing for latency, reliability, and observability. I talk to users, iterate quickly, and own code from design \rightarrow deploy \rightarrow runbooks/on-call.

Available June 2026 | Willing to relocate to San Francisco/Seattle | Requires U.S. work authorization (sponsorship)

Skills Aligned to the Role

Frontend/Backend: React, Next.js, TypeScript/JavaScript; Python (FastAPI/Flask), Java (Spring Boot),

Node.js/Express; REST; pagination, rate limits, idempotency

Data/Infra: PostgreSQL/MySQL (schema, indexing, transactions), Redis caching, RabbitMQ;

basic analytics instrumentation

Systems/Quality/Security: Docker & Docker Compose, GitHub Actions CI/CD; health checks,

structured logs/traces/metrics, feature flags/rollback; JWT/OAuth2, RBAC

Education

Bangladesh University of Engineering and Technology (BUET) — B.Sc. in Computer Science & Engineering Expected May 2026

Experience & Selected Projects

Scholar AI — Co-founder & Full-Stack Engineer

Org | Meta | Docs | AI-Agents | Live

- Built an AI-powered research platform as a containerized microservices system: Next.js frontend; Spring Boot (Java) core APIs; FastAPI (Python 3.11) services; data/infra with PostgreSQL, Redis, RabbitMQ. Orchestrated via a meta repo and Docker Compose across 14 repos.
- Ownership (team of 2): Led the AI agents (FastAPI) and platform CI/CD & Docker Compose orchestration; drove Kanban (GitHub Projects), PR reviews, and cross-repo releases.
- Shipped end-to-end workflow: multi-source paper search (paper-search), PDF/metadata extraction (extractor: GROBID, Nougat, Tesseract OCR, Table Transformer), gap analysis with Postgres (gap_analyzer), contextual Q&A, AI-assisted LaTeX editor, citation manager, and pre-submission review.
- Production posture: GitHub Actions CI (lint/test/build/publish), multi-stage Docker images, env config/secrets, container logs, and health/docs endpoints; disciplined issues/PRs on GitHub Projects.
- Reliability & safety: async jobs via RabbitMQ, hot-path caching with Redis, input validation and basic content-safety checks for LLM features to reduce failure modes and keep the UI responsive.
- Public beta on Azure VM: scholarai.me. AI usage limited to manage token costs; tracked issues to closure (bug
 → fix → deploy).
- **Demo:** 2:13 product tour (no voice, English captions) Demo (2:14) | Full Demo (42:00).

 $Real time\ Collaboration\ Tool --- React\ +\ Fast API\ +\ Postgres$

Collaborative editing with presence indicators and optimistic UI; designed REST endpoints and DB schema with indexes; added feature flags and rollback.

Veridica — Content Verification (Algorand)

Live | Code

On-chain signature/ownership proofs; secure wallet callbacks; idempotent webhooks; containerized deploys.

Quantum Playground — Python, Qiskit, Streamlit

Live | Code

Interactive demos of Grover, QAOA, Deutsch–Jozsa with parameter sweeps and cached computation.

Awards & Highlights

• 2nd Prize — CQhack25 Quantum Computing Hackathon

2025

• UAP Hackathon (Social Impact)

2025 | Bolt Global Hackathon participant