Sepehr Vahedi

London, UK | sepehr.vahedi@gmail.com | sepehrvahedi.github.io
linkedin.com/in/sepehr-vahedi-8a8216216 | github.com/sepehrvahedi | Codeforces: Candidate Master
Available from Sep 2027 | UK Graduate visa, no sponsorship needed to start

EDUCATION

MSc Software Systems Engineering — Sep 2026 – Sep 2027 (expected)
University College London (UCL) — *London, UK*
- Modules: Software Architecture, Validation and Verification, Financial Institutions and Markets.

BSc Computer Engineering (Software Engineering) — Sep 2020 – Jul 2026
Sharif University of Technology — *Tehran, Iran*
- GPA 16.71/20 (**18.25/20 in the last two years**); six years, alongside full-time work at Tapsi.

EXPERIENCE

PillSorted – *NHS online delivery pharmacy* — *Cambridge, UK (hybrid)*
Software Engineer (part-time) — Nov 2026 – Present
- Sole engineer on Ask PillSorted, an iOS/Android AI chat answering patients from their own pharmacy records.
- Designed its Claude agent on Amazon Bedrock: MCP tools, rule-based guardrails and RAG citing NHS sources.

Tapsi – *ride-hailing and delivery super app, 10M+ monthly active users* — *Tehran, Iran*
Senior Software Engineer, Delivery and Marketplace — Dec 2025 – Sep 2026
- Designed the Kotlin gRPC routing service behind every delivery ETA; moved 5 services off the old estimator.
- Raised ETA model-server throughput **54x** (70 to 3,800 req/s per pod) by fixing Triton serialization.
- Took the first delivery ML models to production via shadow and A/B tests: **ETA error 24% to 19%.**

Senior Software Engineer — Jan 2024 – Dec 2024
- Built the event-sourced Kafka backend (1M+ events/day) for multi-delivery orders: **2x daily deliveries**.
- Rewrote the ride-request service from Node.js to Spring Boot with zero downtime: **45%** lower infrastructure cost.

Software Engineer — Feb 2022 – Dec 2023
- Built the backend of Iran's first school-transport platform, 2,000+ drivers and **12,000+ students**, in 1.5 months.

RabinCash – *P2P and B2P crypto exchange* — *Tehran, Iran*
Co-Founder and Product Designer — Feb 2020 – Feb 2021
- Owned product and UX design for an exchange with 20+ trading pairs, and led the two-person front-end team.

RESEARCH EXPERIENCE

Software Quality Research Lab – *Sharif University; supervisor: Prof. Seyed-Hassan Mirian-Hosseinabadi* — *Tehran, Iran*
TestCouncil: Multi-Agent LLM Unit-Test Generation (BSc thesis) [GitHub] — Aug 2025 – Jul 2026
- A council of Qwen, DeepSeek and Gemini agents writes unit tests for Python functions: **92.5% branch coverage**, 36+ points above the best single model.

Intelligent Software Engineering Lab – *Sharif University; supervisor: Prof. Abbas Heydarnoori* — *Tehran, Iran*
LLM Issue-Title Generation — Mar 2025 – Feb 2026
- Auto-titling GitHub issues with LLMs: learned context selection cut input tokens **37.3%** at near-GPT-4 quality.

PROJECTS

- **Mesh-level rate limiter** [GitHub]: self-initiated at Tapsi; adopted by every external-facing service.
- **Property recommender** (Air Properties): RAG over 10K+ listings, 500+ queries/day, 40% faster matching.

LEADERSHIP AND MENTORING

- **Tapsi:** owned code review and on-call for the routing stack; onboarding mentor for a new engineer.
- **Teaching:** Sharif TA; NODET olympiad teacher, students won 1 gold and 2 silver INOI medals.

SKILLS

Languages	Kotlin (Multiplatform, Compose), Java, Python, TypeScript (Node.js), C# (.NET), Go, C++, Swift (SwiftUI)
Backend	Spring Boot, Project Reactor (WebFlux), gRPC, REST, Apache Kafka, event-driven microservices, JUnit, Mockito
AI and ML	Amazon Bedrock (Claude), MCP, RAG, LLM agents, NVIDIA Triton, KServe v2, ONNX, PyTorch, Hugging Face
Infrastructure	AWS, Terraform, Kubernetes, Docker, Helm, ArgoCD, GitLab CI/CD, Istio, Envoy, Prometheus, Grafana, Git
Data	SQL, PostgreSQL, pgvector, MongoDB, Redis, Hazelcast, S3-compatible object storage, Uber H3, OSRM
Spoken	English (IELTS 8.0), German (intermediate), Persian (native)

AWARDS

- **Codeforces** Candidate Master (max 2075, top 1.5%); Expert on an earlier account; 420+ problems.
- **Iran National Olympiad in Informatics**, top-50 finalist (2018, 2019); AUT Programming Contest, 3rd of 65.