

Vancouver, Canada
E: mo@ganji.me
P: +1 778 957 5657

Mohammad Ganji

ganji.me/portfolio
github.com/mohganji
linkedin.com/in/mohganji
[stackoverflow: +1400 reputation](https://stackoverflow.com/users/1400/reputation)

Skills

Languages: Python, TypeScript, JavaScript, GraphQL
Databases: MongoDB, PostgreSQL, Redis, ElasticSearch
Cloud Services: AWS, DigitalOcean, Cloudflare, S3
Monitoring: Logstash, Kibana, Grafana, Sentry

Frameworks: Node.js, Django, React, FastAPI, Pydantic

Orchestration and CI/CD: Docker, GitHub Actions

Other: Git, REST, HTML, CSS, Software Testing, Metabase, Technical Documentation, Web Sockets, Notion

Experience

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| AI Software Engineer Vancouver, Canada | TrustFlight [Aviation Software Solutions] | Feb 2025–Now |
| Software Engineer / Tech Lead Vancouver, Canada | Aupera Technologies Inc. [On-premise Video AI Solutions] | Mar 2023–Oct 2024 |
| | <ul style="list-style-type: none">Led a cross-functional team of 5 engineers, enhancing team productivity with pair-programming and mentorshipScaled an open-source vector database to support terabytes of video stream data, improving search efficiencyLed backend development including semantic search, LLM agents, REST APIs, IdP, DRM, and Docker deploymentAutomated the full lifecycle of an on-premise MLOps pipeline for a major client, minimizing redeployment costsReduced testing time for a live video streaming framework by 90% with a self-hosted CI pipeline (GitHub Actions) | |
| Researcher Vancouver, Canada | Simon Fraser University | Jan 2021–May 2023 |
| | <ul style="list-style-type: none">Published my work at ESEC/FSE 2023, a top tier software engineering conference (Link)As part of my research, developed a tool to measure and visualize proposed coverage criteria in Typescript (Link) | |
| Software Engineer Tehran, Iran | Yektanet [Largest AdTech Platform in Iran] | Dec 2019–Dec 2020 |
| | <ul style="list-style-type: none">Scaled a Python/Django push notification ads service from 5M to 100M daily pushes, driving a 15x revenue increaseOptimized PostgreSQL and Redis databases with 40M+ users, reducing critical query times by 80%Halved debugging time by implementing log pipelines using Elasticsearch, Kibana, and LogstashLaunched the company's public engineering blog, increasing inbound engineering candidate interestContributed to hiring by interviewing candidates, mentoring 3 interns, and reviewing +100 screening tasks | |
| Full Stack Software Engineer Tehran, Iran | Pheebs [Mobile App Development Studio] | Sep 2017–Dec 2019 |
| | <ul style="list-style-type: none">Developed Node.js backend code for two mobile apps with combined 350k installs, from design to deploymentCreated a schema-based, type-safe API-generation tool, adopted by 4 products internally reducing API bugsStreamlined content production of 15+ writers with a custom interactive web platform for writing chat stories | |

Education

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| <ul style="list-style-type: none">M.Sc. Computer Science, Simon Fraser University; Vancouver, Canada.B.Sc. Computer Science, University of Tehran; Tehran, Iran. | 2021–2023 |
| | 2015–2019 |