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# Mohammad Ganji

[ganji.me/portfolio](https://ganji.me/portfolio)  
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## 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

**AI Software Engineer** **TrustFlight** **Feb 2025–Now**  
Vancouver, Canada [Aviation Software Solutions]

**Software Engineer / Tech Lead** **Aupera Technologies Inc.** **Mar 2023–Oct 2024**  
Vancouver, Canada [On-premise Video AI Solutions]

- Led a cross-functional team of 5 engineers, enhancing team productivity with pair-programming and mentorship
- Scaled an open-source vector database to support terabytes of video stream data, improving search efficiency
- Led backend development including semantic search, LLM agents, REST APIs, IdP, DRM, and Docker deployment
- Automated the full lifecycle of an on-premise MLOps pipeline for a major client, minimizing redeployment costs
- Reduced testing time for a live video streaming framework by 90% with a self-hosted CI pipeline (GitHub Actions)

**Researcher** **Simon Fraser University** **Jan 2021–May 2023**  
Vancouver, Canada

- 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** **Yektanet** **Dec 2019–Dec 2020**  
Tehran, Iran [Largest AdTech Platform in Iran]

- Scaled a Python/Django push notification ads service from 5M to 100M daily pushes, driving a 15x revenue increase
- Optimized PostgreSQL and Redis databases with 40M+ users, reducing critical query times by 80%
- Halved debugging time by implementing log pipelines using Elasticsearch, Kibana, and Logstash
- Launched the company's public engineering blog, increasing inbound engineering candidate interest
- Contributed to hiring by interviewing candidates, mentoring 3 interns, and reviewing +100 screening tasks

**Full Stack Software Engineer** **Pheebz** **Sep 2017–Dec 2019**  
Tehran, Iran [Mobile App Development Studio]

- Developed Node.js backend code for two mobile apps with combined 350k installs, from design to deployment
- Created a schema-based, type-safe API-generation tool, adopted by 4 products internally reducing API bugs
- Streamlined content production of 15+ writers with a custom interactive web platform for writing chat stories

## Education

- **M.Sc. Computer Science**, Simon Fraser University; Vancouver, Canada. **2021–2023**
- **B.Sc. Computer Science**, University of Tehran; Tehran, Iran. **2015–2019**