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Mohammad Ganji

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Experience

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| Software Engineer Vancouver, Canada | Aupera Technologies Inc. [On-premise Video AI Solutions] | Mar 2023–Oct 2024 |
| <ul style="list-style-type: none">• Worked as backend lead and promoted to technical lead responsible for a cross-functional team of 5 engineers• Improved team productivity and proper knowledge transfer through pair-programming and hands-on mentorship• Supported searching through terabytes of encoded video stream data by scaling an open source vector database• Led backend development including REST APIs, RTSP integration, IdP, notifications, DRM, and Docker deployment• Designed and Automated the full lifecycle of an on-premise MLOps pipeline for Aupera's largest customer• Reduced testing time for a live video streaming framework by 90% with a self-hosted CI pipeline (GitHub Actions)• Ensured 99.95% server uptime by implementing self-hosted monitoring services | | |
| Researcher Vancouver, Canada | Simon Fraser University | Jan 2021–May 2023 |
| <ul style="list-style-type: none">• Proposed novel coverage criteria for asynchronous JavaScript constructs to enhance test suite effectiveness• Developed JScope, an interactive tool to measure and visualize these criteria in Typescript (Link)• Published my work at ESEC/FSE 2023, a top tier software engineering conference (Link) | | |
| Software Engineer Tehran, Iran | Yektanet [Largest AdTech Platform in Iran] | Dec 2019–Dec 2020 |
| <ul style="list-style-type: none">• Scaled a push notification ads service from 5M to 100M daily pushes, driving a 15x revenue increase in one year• Reduced critical query times by 80% by optimizing PostgreSQL and Redis databases with 40M+ users• 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 5 candidates, mentoring 3 interns, and reviewing 50+ screening tasks | | |
| Full Stack Software Engineer Tehran, Iran | Pheebz [Mobile App Development Studio] | Sep 2017–Dec 2019 |
| <ul style="list-style-type: none">• Implemented Node.js backend code for two mobile apps with combined 350k installs, from design to deployment• Reduced API development time by creating a schema-based, type-safe API-generation tool, adopted by 4 products• Streamlined content production of 15+ writers by developing a custom interactive web panel for writing chat stories | | |

Education

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

Skills

Languages: Python, TypeScript, JavaScript, GraphQL, Bash
Databases: MongoDB, PostgreSQL, Redis, Vector DB
Cloud Services: AWS, DigitalOcean, Cloudflare
Monitoring: Logstash, Kibana, Grafana

Frameworks: Node.js, Django, React.js, Express.js, Flask
Orchestration and CI/CD: Docker, GitHub Actions, PM2
Other: Git, REST APIs, ElasticSearch, RAGs, Distributed Systems, Web Sockets, Software Testing, Jest, Pytest