Mohammad Ganji

Linkedin: https://www.linkedin.com/in/mohganji
Github: https://github.com/mohganji
Stack Overflow: mo-ganji (+1000 reputation)

Email : m_ganji@sfu.ca
Website: ganji.blog
Mobile : +1-778-957-5657
Address: Burnaby, CA

EXPERIENCE

Aupera Technologies Inc. — Burnaby, CA
Software Engineer — *Mar 2023 - Present*
- Designed and implemented a self-hosted CI/CD pipeline, automating release process of video stream AI framework.
- Developed and maintained the backend of VMSS framework including IdP, MongoDB, RTSP video streams, 3rd party integrations, storage services, data backup, event based notification systems, and API development.
- Worked asynchronously in a remote environment with teams distributed in different timezones.

Simon Fraser University (SFU) — Burnaby, CA
Research and Teaching Assistant — *Sep 2020 - Jan 2023 (2.5 years)*
- Led a research paper on testing and debugging asynchronous programs.
- Developed a VSCode extension to integrate our approach into a coding environment.

CSIL Exam Scheduler - SFU — Burnaby, CA
Web Developer - Contract Job — *Jun 2021 - Sep 2021 (4 months)*
- Implemented web server and web client of SFU CSIL in-lab test scheduling automation using Node.js, PostgreSQL, and EJS.

Yektanet - Digital Advertising Platform (Link) — Tehran, IR
Software Engineer — *Dec 2019 - Aug 2020 (8 mo)*
- Scaled, redesigned, and refactored push notification advertising microservice from 5M to 100M daily push notifications, resulting in 15x revenue increase in 1 year.
- Architectured large scale databases (40M+ users, 20+ tables in PostgreSQL) and Redis pipelines to optimize and reduce average query time by 80% for critical, recurring database queries.
- Stepped up for product management, launch, and release a new feature, aka CPC push advertisement, which led to a 30% revenue growth within a month from first release.
- Representative for external communication to collaborate with other tech teams and non-technical teams, such as sales, account management and product teams.
- Set up log management pipelines using ELK stack (Elasticsearch, Logstash, Kibana).
- Configured and maintained server load monitoring dashboards using Grafana.
- Interviewed 5 applicants, mentored 3 interns, reviewed 100+ resumes and 100+ technical tasks.

Pheebs - Mobile Application Startup — Tehran, IR
Full Stack Web Engineer — *Sep 2017 - Nov 2019 (2 years)*
- Lead backend engineer of Episode mobile app (20k+ users). Developed Epsiode from scratch using GraphQL and Node.js.
- Implemented and scaled the backend service of Chizz, a social media web application with autonomous content management and 120k+ monthly active users.
- Built and shipped Pact Node.js library internally, an inventive mechanism that allowed automatic API generation through predefined schemas.
- Developed responsive and interactive components for Chizz web client in React.
- Collaborated with 4 teammates in an agile environment acting as the scrum master.
- Designed maintainable and scalable databases and caching using MongoDB, Mongoose, and Redis. (30+ collections)
- Automated testing and deployment of Episode using Docker, Nginx and CI/CD pipelines.
- Built and organized data analysis and insights dashboards using Metabase to monitor business and product KPIs.

EDUCATION

Simon Fraser University — Burnaby, CA
Thesis based Masters in Computer Science; GPA: 3.78 — *Sep 2020 - May 2023*

University of Tehran — Tehran, IR
Bachelor of Computer Science; GPA: 3.4 — *Sep 2015 - Jan 2020*

PROJECTS

Blogfrog.xyz — Burnaby, CA
A website to randomly discover new blog posts on the internet. — *Jul 2022*

ganji.blog — Burnaby, CA
My personal website — *Mar 2022*

SchemaIran Telegram Bot - Freelance Project — Tehran, IR
Developed a Telegram bot for Schemairan clinic to conduct YSQ tests online. Collected 10k+ test results. — *Mar 2022*

SKILLS

- **Languages**: Python, JavaScript, TypeScript, SQL, Java, C++, Bash, LaTeX
- **Frameworks**: Node.js/Express.js, React.js, Django, Mongoose, GraphQL
- **Databases**: Relational Databases: PostgreSQL, MySQL, Non-relational Databases: MongoDB, Redis, RabbitMQ
- **CI/CD**: Github Actions, Docker Compose, Gitlab CI
- **Software Knowledge**: Object Oriented Design (OOD), Design Patterns, Distributed Systems, Test-Driven Development (TDD), Data Structures, Algorithms, RESTful API Development, Web development
- **Tools**: Docker, Git, CI/CD, Nginx, ElasticSearch, Logstash, Kibana, Sentry, Grafana, HTML/CSS, JQuery, Figma, Metabase
- **Cloud Infrastructure**: Linux server administration, Amazon AWS, Web Hosting and VPS services
- **Testing**: Unit, integration and end-to-end testing, Mocha, Jest, Tap, JUnit
- **Teamwork**: Agile, Scrum, Kanban, Trello, Notion, Pair Programming, Tech Blogs, Mentoring, Tech Interviews, Documentation