

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

- **Simon Fraser University (SFU)** Burnaby, CA
Research and Teaching Assistant Sep 2020 - Dec 2022 (2 years)
 - Led a research paper on testing and debugging asynchronous programs in JavaScript.
 - **Designed and implemented a Visual Studio Code extension (in TypeScript) from scratch** to integrate our research approach into a coding environment.
 - Instructed and mentored teams of students on **software design patterns and good programming practices** through developing an arcade game in Java as a teaching assistant for CMPT 276 (Intro to Software Engineering course).
- **CSIL Exam Scheduler - SFU** Burnaby, CA
Web Engineer - Contract Job Jun 2021 - Sep 2021 (4 months)
 - Revamped web server and client of SFU CSIL in-lab test scheduling automation using Node.js, PostgreSQL, and EJS.
 - **Communicated with SFU CS Faculty and IT staff to collect feedback and make design improvements.**
- **Yektanet - Digital Advertising Platform (Link)** Tehran, IR
Software Engineer Dec 2019 - Dec 2020 (1 year)
 - Scaled, redesigned, and refactored push notification advertising microservice from 5M to 100M daily push notifications, resulting in **15x revenue increase in 1 year**.
 - **Architected large scale efficient databases** (40M+ users, 20+ tables in PostgreSQL) and Redis pipelines to optimize and reduce average query time by 80% for critical, recurring database queries.
 - **Coordinated product management, launch, and release a new feature, aka CPC push advertisement, which led to a 30% revenue growth** within a month from initial release.
 - Communicated with non-technical internal teams, such as sales, design, account management and product teams.
 - Representative for **collaboration with technical teams in other companies to develop 3rd party APIs for external integrations.**
 - Set up deployment automation scripts (bash scripts on Linux servers) and 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.
- **Pheebes - Mobile Application Startup** Tehran, IR
Full Stack Software Developer Sep 2017 - Nov 2019 (2 years)
 - Lead backend engineer of Episode (Interactive chat-story entertainment mobile app with 20k+ active users). Developed Episode backend from scratch using GraphQL and Node.js.
 - **Implemented backend service of Chizz and redesigned its Client/Server communication architecture for scalability.** (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 modern NoSQL databases. (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
Masters in Computer Science (Thesis based); GPA: 3.89 Sep 2020 - Dec 2022 (expected)
- **University of Tehran** Tehran, IR
Bachelor of Computer Science; GPA: 3.40 Sep 2015 - May 2020

PROJECTS

- **Blogfrog.xyz** Burnaby, CA
A fully front-end website to randomly discover new blog posts on the internet. Scrapes my favorite blogs. Jul 2022
- **ganji.blog** Burnaby, CA
My personal website, built from scratch using semantic HTML, CSS, and JavaScript. 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
- **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