

Mohammad Ganji

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EXPERIENCE

- Simon Fraser University** Burnaby, CA
Research and Teaching Assistant Sep 2020 - Dec 2022 (2 years)
 - Submitted a first author research paper on testing and debugging asynchronous programs.
 - Integrated our approach into a VSCode extension which improved users' accuracy of testing async JavaScript apps by 28%.
 - Designed and conducted two controlled user studies.
 - Teaching Assistant for CMPT 276(Software Engineering, 3 terms) and CMPT 120(Intro to computer programming, once).
- SFU CSIL Exam Scheduler** Burnaby, CA
Software Developer - Contract Job Jun 2021 - Sep 2021 (4 months)
 - Responsible for software development of a web-based platform to automate scheduling in-lab testing at SFU CSIL labs.
- Yektanet** Tehran, IR
Software Engineer (Product Engineer) Dec 2019 - Dec 2020 (1 year)
 - Scaled, redesigned, and refactored push microservice from 5M to 100M daily push notifications and 15x revenue in 1 year.
 - Optimized databases (100M+ records, 20+ tables in PostgreSQL) and data pipelines. Reduced average query time by 80%.
 - Responsible for product management, launch, and release of CPC push advertisement, producing 30% revenue growth.
 - Set up log management pipelines using ELK stack (Elasticsearch, Logstash, Kibana).
 - Managed and maintained server monitoring dashboards using Grafana.
 - Representative for cross-team and external communication with development, sales, and product teams.
 - Interviewed 5 applicants, mentored 3 interns, reviewed 100+ resumes and 100+ technical tasks.
- Pheebz** Tehran, IR
Full Stack Software Developer Sep 2017 - Nov 2019 (2 years)
 - Implemented backend services for Chizz (120k+ monthly active users) and Episode (20k+ users) mobile apps from scratch.
 - Developed admin panel, landing page, and web views for two mobile applications.
 - Designed databases and caching using MongoDB, Mongoose, and Redis. (30+ collections)
 - Automated Deployment for Episode using Docker, CI/CD, and Nginx on Linux servers.
 - Set up data analysis dashboards using Metabase.
 - Coached one entry-level backend developer.

EDUCATION

- Simon Fraser University** Burnaby, CA
Thesis based Masters in Computer Science; 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 website to discover new random blog posts on the internet. Jul 2022
- m.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
- 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