

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 JavaScript programs.
 - Integrated our approach into a VSCode extension (developed in TypeScript) which improved users' accuracy of testing async JavaScript apps by 28%.
 - Designed and conducted two controlled user studies to assess our tool's usability.
 - Gained deep familiarity with design patterns and object-oriented design through TAing for CMPT 276 (Software Engineering) for 3 terms.
- **SFU CSIL Exam Scheduler** 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** Tehran, IR
Software Engineer (Product Engineer) - Push Notification Advertising Platform 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 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 software engineers, reviewed 100+ resumes and 100+ coding tasks.
- **Pheebz** Tehran, IR
Full Stack Web Engineer Sep 2017 - Nov 2019 (2 years)
 - Owner and maintainer of 2 mobile application web servers, aka Chizz and Episode.
 - Designed and Engineered a well-tested backend service for Episode (20k+ users) mobile app from scratch using GraphQL and Node.js.
 - Implemented and scaled the backend service of Chizz social media web application with autonomous content management (120k+ monthly active users).
 - Developed responsive and interactive components for Chizz web client in React.
 - Built and shipped Pact Node.js library internally, an inventive mechanism that allowed automatic API generation through predefined schemas.
 - Collaborated with 4 teammates in an agile environment and proactively brought scrum methodology to the team acting as the scrum master.
 - Developed admin panel, landing page, and web components for two mobile applications using HTML, CSS, JavaScript, JQuery, and React.
 - 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 (Continuous Integration/Continuous Delivery) pipelines.
 - Set up data analysis and insights dashboards using Metabase to monitor business and product KPIs.
 - 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 frontend-only website to discover new blog posts randomly, developed using semantic HTML, CSS, JavaScript. Jul 2022
- **m.ganji.blog** Burnaby, CA
My personal website and blog, designed and developed from scratch. 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 application development, Problem Solving
- **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