

Hamed Gorjiara

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EDUCATION

University of California, Irvine

Anticipated Grad Date: Jan 2022

Ph.D. in Computer Engineering

Jun 2018 – Now

- Developed an efficient model checker and test framework for persistent memory programs. This tool simulates the processor and lazily explores executions to identify concurrency and persistent bugs. This tool can be used in verifying in-memory databases, transnational libraries, file systems, and etc. It is written in C/C++ and the LLVM compiler is used to automatically annotate memory accesses.
- H. Gorjiara, H. Xu, B. Demsky. Jaaru: Efficiently Model Checking Persistent Memory Programs. ASPLOS 2021

University of California, Irvine

GPA: 3.9/4.0

M.S. in Computer Engineering

Aug 2016 – Jun 2018

- Implemented an optimization framework, Satune, for solving constraints captured as similar-linear expressions in a domain-specific language (DSL), and converting them to a Boolean Satisfiability problem optimized for fast execution.
- Developed 20000 lines of C++ code with advanced features such as guided parallel parameter tuning using Machine Learning techniques.
- H. Gorjiara, H. Xu, B. Demsky. Satune: Synthesizing Efficient SAT Encoders. OOPSLA 2020
- **Courses:** Machine Learning, Program Analysis, Operating Systems, Distributed Systems, Multicore Programming

University of Tehran

GPA: 3.7/4.0

B.S. in Computer Engineering

Aug 2012 – Jun 2016

- Built and optimized a Cassandra (NoSQL DB) cluster for Big Data usages in our school
- **Courses:** Algorithm, Database, Networks, Security, Internet Eng, Software Eng, Data structures

EXPERIENCE

Personal Project

Jan 2020 – Now

Master Gig

Irvine, CA

- Developing a cloud-based website and mobile applications for promoting events, and booking entertainment service providers such as DJs, artists, etc.
- My contributions include setting up a website and database on the cloud, designing the database and website's APIs, and developing both backend and frontend of the website
- Technologies: Azure, Function, CosmosDB, NodeJS, React, React-Native, Jest, Redux.

Software Developer (Part-time)

Jun 2014 – Jun 2016

Research Institute of Tehran University

Tehran, Iran

- Contributed to development of a large scale enterprise web application for National Customs. The application is used for monitoring/tracking cargo transportation, and reporting anomalies and unexpected events.
- My contributions include web UI development, back-end service development, and database query development.
- Technologies: MVC framework (Wicket), Hibernate, MySQL, NoSQL databases (Cassandra), Java, JavaScript, CSS, JSON.

AWARDS AND CERTIFICATES

- 2020** Awarded certificates for Machine Learning, Artificial Intelligence, and Data Science from Google
- 2020** Awarded certificates for React, React Native, Redux, Node.js, and Javascript from codewithmosh.com
- 2018** Three year full financial Support from National Science Foundation of USA
- 2017** Ranked first on UCI Kaggle Machine Learning competition to predict rainfall from satellite pictures
- 2016** Two year financial support from University of California, Irvine
- 2016** Ranked 2nd among HW students in University of Tehran

TECHNICAL SKILLS

Programming: C (3 years), C++ (6 years), C# (1 year), JAVA (3 years), Python (3 years), Javascript (2 year), CSS (3 years), HTML (3 years), NodeJS (2 years), Bash (5 years)

Frameworks: Azure (1 year), CosmosDB (1 year), React (1 year), Maven (3 years), Git (6 years), React-Native (6 months), Hibernate (2 year), Spark (2 years), MySQL (3 years), JUnit (2 years), Jest (1 year), Selenium (2 years)