

Mohammad Mottaghi

✉ mmottaghi@google.com ☎ (408) 396-9287



🌀 Education 🌀

Ph.D. in Computer Science

Duke University, NC, USA

2009/1-2014/5

M.S. in Computer Engineering

University of Tehran, Tehran, Iran

2003/9 – 2006/3

B.S. in Computer Engineering

Iran Univ. of Sci. & Tech, Tehran, Iran

1999/9 – 2003/3

🌀 Honors and Awards 🌀

- Graduate-School Fellowship
2009, Duke University
- 2nd place award
2003, RoboCup World Competitions, Padua, Italy
Soccer league game presentation and analysis
- 3rd place award
2003, RoboCup World Competitions, Padua, Italy
Soccer league online coach competitions
- Ranked 20th out of 5,800 participants
2003, Nationwide graduate admission test for CompEng
- Distinguished researcher award
2002, Iran University of Science and Technology
- Top student (Highest GPA)
Class of 2003, Iran University of Science and Technology
 - Ranked 1st
2003, computer engineering department
 - Ranked 1st
2002, computer engineering department
 - Ranked 1st
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 - Ranked 1st
2000, computer engineering department
- Khwarizmi Festival Award
1998, outstanding project in national level
- Khwarizmi Festival Award
1997, outstanding project in provincial level

🌀 Work Experience 🌀

Google (4 years, Senior SW engineer, 2020 - Present)

- Ads → GCL, C++, Java, HTML, CSS, AngularJS, JsLayout
Local Inventory Ads (LIA): Launched several projects focusing on enhancements in the Ad Formats, such as distance to a local shop, dual-row carousel, "price-drop" badge, "pick-up today" annotation, etc.
- Google Cloud → Bash, Powershell Script
Virtual network adapter for Windows clients in Kubernetes: Imported and packaged the Antrea network adapter to enable incorporating Windows nodes into hybrid Linux/Windows clusters for Kubernetes.

NVIDIA (5 years, Senior SW engineer, 2015-2020)

- Full-stack engineer → C#, MS-SQL, AngularJS
Game Onboarding Manager: A web portal that enables smooth collaboration among different GFN (GeForce Now) teams
- Analytics engineer → Python, C#
A library to push metrics data to a Prometheus server for real-time monitoring, analysis, and alert generation
- Front-end engineer → React/Redux, NodeJS
An interactive web UI for NGC (Nvidia GPU Cloud) price estimation
- Back-end engineer → C++
A Windows-based app for game developers to manually test their game integration with GFN (GeForce Now) via NVIDIA GFN-Link SDK

LifeCodeHealth (San Mateo, CA, 2014/10 – 2015/2)

- Back-end engineer → Java
Algorithm to find the list of medical terms relevant to an input word, and sort it by semantic affinity (used to recommend items to users)

Aali-Qapu Inc. (Lead Developer, Tehran, 2006/1- 2009/1)

- Cloud Computing/Big Data
 - Chain-store targeted-coupon generation
 - Product recommendation based on customers' shopping history
- Web Service Development
 - php/mysql solutions for several office automation systems
 - Several management information systems (MIS)

Toloo Inc. (Tehran, 2003/6- 2006/1)

- Windows Application Development
 - C++ / Learning Management System
 - MS-SQL/C++, Java solutions for accounting systems

🌀 Skills 🌀

Web: JavaScript, AngularJS, React/Redux, jQuery, PHP, ASP.Net, HTML-5, CSS-3

Scripting: Python, Go, Perl, Bash, MATLAB

System/Backend: C, C++, C#, Java, Pascal, Assembly

Parallel/Distributed: Map-Reduce, Pig, Hive, CUDA, OpenCL, Pthreads, MPI

DB: Cassandra, MySQL, MS-SQL, PostgreSQL

