

# Sina Labbaf

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## EDUCATION

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### University of California, Irvine

*Ph.D. in Computer Science*

Irvine, CA

*Expected June 2022*

### University of Tehran

*B.Sc. in Computer Engineering*

Tehran, Iran

*2012 - 2017*

## EXPERIENCE

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### Pegah Tech Co.

*Web Application Developer*

Tehran, Iran

*Sep 2016 - Sep 2017*

- Developed variety of websites and dashboards for Backtory[.com], Alounak[.com], Suppline[.ir]
- Improved reachability and click rate in ad campaigns by interactive advertisement design and development
- Integrated video advertisement SDK with game development platforms

## HONORS AND AWARDS

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### Valedictorian

*Highest among Computer Hardware Engineering students*

University of Tehran, Iran

*2012 - 2017*

### Game Development Contest

*Best Game Award*

Iran

*Mar 2016*

### ACM International Collegiate Programming Contest

*Top Five Teams*

Asia Region

*Dec 2014*

### National Science Fair Student Award

*Third Place in Computer Science Projects*

Iran

*Oct 2011*

## NOTABLE PROJECTS

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- Health-care IoT: Monitoring and analyzing stress level using wearable IoT devices
- Accelerating Security Algorithms: Profiling and design space exploring on accelerators for cryptography
- Smart Mobile Robot Simulator: Providing automatic feedback using neural network on simulated robots performance
- AI Algorithm Optimization: Utilizing high parallelism level in FPGA to optimize Minimax algorithm in abstract games 📄
- SoC Development: Enhancing performance for vision algorithms by designing FPGA accelerators for ARM
- Linux Kernel Programming: Creating a prioritized Semaphore and Scheduler by tweaking Linux Kernel
- Parallelized Vision Program: SIMD and GPU accelerated motion detector algorithm
- Pipelined RISC processor: A parametrized pipelined processor coded in Verilog for FPGA 📄

## SKILLS

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- Programming Languages: C/C++ [OpenMP, OpenCV], CUDA, Java, Python
- Web Development: JavaScript [AngularJS, JQuery, JQueryUI, NodeJs], CSS [Bootstrap], HTML
- Miscellaneous: Bash, IntelliJ Idea, Git, VIM, MATLAB, L<sup>A</sup>T<sub>E</sub>X
- HDL: Verilog, System-Verilog, VHDL, SystemC
- CAD Tools: Altera Quartus, Modelsim, Synopsys Hspice, Synopsys Design Compiler, Altium Designer