

# Sina Labbaf

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🎓 Sina Labbaf

## WORK EXPERIENCE

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### Research Software Engineer

UC Irvine

Irvine, CA  
Sep 2017 - present

- Lead, designed, and developed a cybernetics health service for remote healthcare monitoring and intervention
- Serviced over **10 projects** with more than **1500 participants** in different fields: mental health, maternal well-being, elderly care, etc.
- Achieved high performance in processing and storing high-frequent longitudinal healthcare data in micro-service server design
- Improved participant engagement by developing a multi-platform dynamic mobile app for labeling and intervention
- Designed web dashboards enabling the creation of data processing pipelines and machine learning engines without programming
- Supervised diverse teams of more than **30** undergraduates, exchange students, and visitor scholars

### Full-Stack Software Engineering Intern

Unity Technologies

San Francisco, CA  
Jun 2022 - Aug 2022

- Interned in Ads Mediation Features team at Unity Operate Organization
- Designed the full-stack integration of customer history change log feature for Unity Mediation

### Full-Stack Software Engineer

Pegah Tech

Tehran, Iran  
Sep 2016 - Sep 2017

- Contributed to the launch of products in gaming BaaS and SaaS, mobile advertisements, Real-estate solutions, and online chat support
- Demonstrated expertise in designing, developing, and testing web-application dashboards for a diverse range of internet services
- Boosted user engagement with ads by creating a light-weight interactive mobile ads SDK

## EDUCATION

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### University of California Irvine

Doctorate in Computer Science

Irvine, CA  
Sep 2017 - present

### University of California Irvine

Masters in Computer Science

Irvine, CA  
Sep 2017 - Jun 2022

### University of Tehran

Bachelors in Computer Engineering

Tehran, Iran  
Sep 2012 - Jun 2016

## NOTABLE PROJECTS

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- Improve user engagement and accuracy by using context-aware active learning and reinforcement learning to collect mental health data
- build monitoring and adaptive physical exercise recommender engine for underserved pregnant women
- Accurately forecast future mood and emotions using bio-signals in college students
- Smart Mobile Robot Simulator: Providing automatic feedback using neural network on simulated robots' performance
- Indie-Game Design and Development: Collaborate with groups of independent artists to design and develop video games

## HONORS AND AWARDS

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2017 **Valedictorian**, Graduated with highest GPA

University of Tehran

2016 **Best Game**, National Game Development Content

Iran

2014 **Top 5**, ACM International Collegiate Programming Contest (ACM-ICPC)

Asia Regional

2011 **Third Place**, National Science Fair

Iran

## SKILLS

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**Programming Languages:** Python, TypeScript, JavaScript, Java, Go (GoLang), C, C++, C#, SQL

**Server & API:** Python (Flask, FastAPI, Django, Celery), TypeScript/JavaScript (Node.js, Express, InversifyJS), Java (Spring)

**Database:** Non-Relational Databases (MongoDB), Relational Databases (MySQL, PostgreSQL), Time Series Databases (InfluxDB)

**Web & Mobile:** React, React Native, Angular, Angular.js, Ionic, Cordova, Component Libraries (MaterialUI, Nebular, React Native Paper), Redux, Saga, AJAX, JQuery, CSS3 (SASS, LESS), HTML5, Android Native

**Infrastructure:** Amazon Web Services (AWS), Google Cloud Platform (GCP), Kubernetes, Docker, Kafka, RabbitMQ, Redis, Apache2, Nginx

**Integration & Automation:** Jira, Jenkins, Git, Github Workflows, Bash, Zsh

**Machine Learning & AI:** Statistical Analysis, Digital Health Data Analysis, Neural Networks, TensorFlow, PyTorch, Keras

**Miscellaneous:** Linux, L<sup>A</sup>T<sub>E</sub>X, Microsoft Office, Firebase, Twilio, OneSignal

**Other Skills:** Agile Methodology, Algorithms, Data structures, Object-Oriented Programming (OOP), Inversion of Control Programming (IoC), Multi-threaded Programming, Documentation, Technical Writing