Vahid H. Lakhani

C++ SOFTWARE DEVELOPER

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Summary.

- Engaged and professional software developer with over **5+ years** of experience in software development.
- Extensive experience with object-oriented programming and strong skills in **C, C++, and Python**. Experienced in team leadership, mentoring, and continuous improvement of code quality.
- Strong critical thinking and problem-solving abilities, well-organized in time management, and enjoy working collaboratively. As a team player, I value supporting and sharing knowledge with colleagues.

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Rooster Wars (C++, Cocos2d-x, .Net, C#) (Proprietary software)

Medrick FZE

GAMEPLAY DEVELOPER, UI DEVELOPER, NETWORK DEVELOPER, AND DATA ANALYSIS DEVELOPER

Zero to Hundred: The Last Gear (C++, Cocos2d-x, .Net, C#) (Proprietary software)

Medrick FZE

GAMEPLAY DEVELOPER, UI DEVELOPER, NETWORK DEVELOPER, AND DATA ANALYSIS DEVELOPER

ESP32-BME680-C (Embedded C, Python, SQLite, InfluxDB, Grafana) (Link)

Freelance

EMBEDDED C DEVELOPER

Matrix Movie Rain Effect (C++11) (Link)

Freelance

C++ DEVELOPER

MultiPaxos (C, Bash) (Link)

Freelance

C DEVELOPER

TinyBlockchain (C++, REST API) (Link)

Freelance

C++ DEVELOPER

CropItGame (C++, Cocos2d-x) (Link)

Freelance

C++ DEVELOPER

Snakes and Ladders (C) (Link)

Freelance

C DEVELOPER

Terminal Card Game (C++) (Link)

Freelance

C++ DEVELOPER

ParticleSwarm (C++, SDL) (Link)

Freelance

C++ DEVELOPER

Matrix Multiplication (C++) (Link)

Freelance

C++ DEVELOPER

Technologies and Tools

Programming Languages

C, C++, C#, PYTHON, GO

Tools and Frameworks

CMake, Git, GDB, Valgrind, Qt, Cocos2d-x, Unity3D

Embedded & Systems Level

ESP32, FREERTOS

GRAFANA, DOCKER, AMAZON EC2, TLA+, GITHUB ACTIONS

Work Experience

Freelancer Sandnes, Norway

FREELANCE DEVELOPER

March 2024 - Present

• Programming languages and tools: C, C++, C#, Cocos2d-x, Nakama, Unity3D

University of Stavanger

Stavanger, Norway

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October 2020 – March 2024

- Programming languages and tools: Go, Python, C++, Amazon EC2, TLA
- Published academic articles, developed software, and mentored students.

Medrick FZE Tehran, Iran

GAME DEVELOPER May 2020 – October 2020

- Programming languages and tools: C#, .NET, Unity3D
- Optimized memory usage by 30% through the use of the blackboard design pattern.

Freelancer Tehran, Iran

FREELANCE DEVELOPER

June 2019 – April 2020

- Programming languages and tools: C++, Python, Keras, Cocos2d-x
- Developed a fully functional open-source blockchain in C++ replicating core features of a proof-of-work blockchain network.
- Developed a 2D mobile game using Cocos2d-x and C++, which achieved significant success with over 10,000 downloads in the first week.
- Developed an LSTM model that improvises jazz solos using an LSTM network.

Università della Svizzera italiana

Lugano, Switzerland

RESEARCHER June 2018 – May 2019

- Programming languages and tools: C, MariaDB
- Software development with Galera Cluster and MariaDB.

Medrick FZE Tehran, Iran

GAME DEVELOPER January 2015 – May 2018

- Programming languages and tools: C++, C#, .NET, Cocos2d-x
- Optimized memory usage and improved performance using the Singleton design pattern.
- Developed a debugging tool to locate local and global positions of objects across layers, which reduced development time by 40%.

Pouyandegan Danesh Tehran, Iran

Unity Developer January 2014 – January 2015

- Programming languages and tools: C#, .NET, Unity3D, GIS
- Responsible for 3D simulation, including reading GIS data and accurately constructing the map in Unity3D for a train simulation project. Also implemented scene loading and unloading to manage memory usage efficiently.

Education

UIS Stavanger, Norway

PHILOSOPHIAE DOCTOR IN COMPUTER SCIENCE (PHD)

Kharazmi University

Tehran, Iran

MASTER OF SCIENCE IN COMPUTER SCIENCE (MSc)

AmirKabir University of Technology (AUT)

Tehran, Iran

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BSc)

Languages_

Norwegian (B1 level), English (Professional proficiency), Farsi (Native)

References_

Available upon request.