

# Amir Ofir

Tech lead, Performance consultant, Deep learning research

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14 years of experience developer looking for the next adventure:

- Machine learning research and development.
- Tech leader.
- Performance Expert.

I can fit in research teams, infrastructure teams or back-end teams. Enthusiastically develop cutting edge solution and have fun doing so.

## Skills

### **Machine learning, deep learning and computer vision:**

Tensorflow, PyTorch, Numpy, CUDA.

### **Tech leading:**

Architecture, Mentoring, Presentation.

### **Programming:**

C++, .Net, Python.

### **Performance & Load Optimizing:**

Cloud, Queue Apps, Parallel computation, Multithreaded environment, Database tuning, Cache, Memory, Algorithm optimization.

## Work Experience

2018-11 - 2020-04

### **Infrastructure & Computer Vision Software Engineer**

*Visionix (Quickcode)*

- Researched a machine learning algorithm for inference of missing components, allowed cheaper product to present the necessity of using the higher class product.
- Researched a computer vision algorithm for examination of damaged lens, *reduced damaged goods by 70% and staff by half.*
- Lead modularization redesign of legacy c++ application to multi-tier service oriented architecture. *Enabled selling of modules and reduce code complexity.*
- Installed and managed various infrastructure technology upgrades, including Windows 10 Platform toolset, .Net, MFC version.
- Developed camera drivers, Gain 40% higher resolution with 20% less latency and eliminated memory leakage.
- Structured database design and data models, and implemented on MySQL.
- Mentored team members with SaaS and Cloud projects.

2015-09 - Current

## **Back-end team leader**

*Quickcode*

- Managed 2 developers, mentored and guided over 5 new employees.
- Analyzed product requirements and wrote project architectures.
- Accelerated number of projects, resolved deadlocks, designed cache modules, Database optimization, load, algorithm optimization, multi-threaded design.  
For example Menora's PDF publisher reduce latency by 60%, and Comcast's commercial billing transactions latency by 95%.
- Completed development of numerous .Net Web API projects.
- Cloud integration and management for Azure, Google Cloud: SaaS, Windows VM, Linux VM, s3, Documents, queues.
- Database development and acceleration: Oracle, MySQL, Sql Server, MongoDB, Couchdb, Cosmos-db.

2014-04 - 2015-06

## **Software developer**

*AzurePCR*

- Researched DSP algorithms for solving time-differentiable results.
- Developed a solution in C#, C++ for cloud and thin-server environments.
- Cloud Development with AWS infrastructure including S3 Storage, SQL-Server database, SQS Queue, EC2 server.
- Performance optimization: Massive file support, Memory tweaking, Load, Parallel Programming.
- Integration with Matlab, Python.

2013-01 - 2014-04

## **Senior front end developer**

*Click Dimensions*

- Took concepts and produced design mockups and prototypes to strengthen designs, enhance user experiences and improve site interactions.
- Analyzed requirements and designed, developed and implemented web single page application.
- Infrastructure Development in Windows Azure, SQL Azure, MongoDB.
- Security expert, penetration tests.
- Front end: MVVM architecture with Html5, CSS3, JavaScript, knockout.js, jQuery, Highcharts.js, Moment.js, jQuery UI.
- Back end: Asp.Net MVC, Entity Framework.

2011-10 - 2012-10

## **Development team leader**

*Shoham, Lotem (Mamram), IDF*

- Lead development of a Geographic Information System.
- Designed and implemented a geographical engine, built for super-stable, high performance, multi threaded requirement.
- Analysis, design, implementation and GIS algorithms.
- Leading a small group of 2-3 Developers, scheduling work-plans.
- Implemented Test driven development methodology.

2010-10 - 2012-10

## System Analyst

*Shoham, Lotem (Mamram), IDF*

- Characterization of demands and ingredients for a novel cross enterprise solution with Enterprise Service Bus concept design.
- Features analysis for existing project

2006-03 - 2010-10

## Software developer

*Shoham, Lotem (Mamram), IDF*

- GIS software development with ESRI's Toolset: ArcObjects, SDE
- Oracle Database Administration and acceleration.
- Lead for a infrastructure upgrade, with complete face lift: Migration to linux servers, database version Oracle 10g, ESRI toolset upgrade to ArcGis 9.3, ESRI database upgrade to SDE 9.3.
- Wrote Integration server with other project, with strict security concerns.
- Collaborated on all stages of systems development lifecycle, from requirement gathering to production releases.
- Performed software testing to uncover bugs and troubleshoot feature issues prior to application launch.

## Education

2019 - Current

## Computer Science MSc.

*Ariel University*

- Majored in Deep learning & Computer vision.
- Member of Dr. Gil Ben-Artzi Deep learning lab.
- Thesis: Fast computation of convolutions layers in neural networks using Gray Code (Hadamard-Walsh) Kernels.
- Coursework in Machine Learning, Computational Geometry, Deep Learning and Localization.

2010 - 2012

## Computer Science BSc.

*College of Management*

- Graduated with honors
- Final Project in Cyber security Walkie-Talkie for Symbian OS using Diffie Hellman algorithm.
- Projects: Data-mining with machine learning algorithm, Game with physical engine for Symbian OS.
- Specialized in internet applications.

2010

## System Analysis with UML

*John Bryce*

- Graduated with honors

2006

## Software Development (קורס תכנות)

*Bsmc, Mamram, IDF*