

ADAM LEV-LIBFELD

Looking for a senior technological leadership/architecture role

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I lead the design and build of modern, high performing, highly available architectures and code.

See my recommendations at www.adamlev.com

EMPLOYMENT

VP R&D

January 2023 - Current

Sepio Cyber

Leading all development efforts in the company, from design, architecture, and some hand on research to project tracking, and quality and timely delivery. Under my responsibility the company delivered on a years overdue system wide redesign project (from stateful to stream based), improved performance by several orders of magnitude, and made vast personnel and organizational changes, improving the dev process efficiency and team ownership.

Chief Technology Officer

2021-2023

Tons.ai (prev. Hyperplane) - pre-seed, Intel Ignite 7th cohort

Planning and executing on the creation of a product (up to first clients deployment) in the field of HPC-cloud infrastructure (details upon request). Building and training a team of engineers from various disciplines and mixed levels of experience. Presenting to clients, partners and investors.

Director of Data Engineering, Acting DPO

2020-2022

Lightricks

Managing teams of senior engineers and directing the BI personnel embedded across different departments in the redesign and rebuild of the real-time processing, intake and analytics funnels for the entire company (50K events/sec sustained input), moving from RDBMS to a stream processing one, from a managed solution to self managed (where appropriate!) and from a single cloud provider to a multi-cloud architecture, improving responsiveness and saving over half a million USD in the first year alone.

Chief Architect & CISO

2018–2019

Emedgene Technologies

Planning, managing, hiring for and executing major structural changes improving performance and security of a large scale bioinformatics SaaS serving some of the largest health organizations in the Americas, Europe and the Middle East. Additionally, as part of my work I ensured the company would comply with HIPAA, GDPR and SOC2 type 2, worked with suppliers and auditors, as well as client meetings to plan for future demands and performance goals.

Scale Architect, Design Consultant

2015–2021

Tamar Labs Consulting

Providing high-performance architecture and development services clients varying from small promising startups to multinational corporations. Conducting client interviews to uncover hidden needs, and focusing on technologies such as high-level Fast Data (HA stream processing) architecture and low-level custom built Redis modules enabled our clients to achieve 6 to 9 orders of magnitude boost in performance while lowering cost of ownership and improving overall user experience.

Lead Middleware Engineer

2012– 2015

Software Infrastructure dept., ISNU, IDF

Tools and Platforms

GCP
AWS (certified SA)
Azure

Linux/UNIX internals
Kubernetes

Redis (+ module development)
MPI/OpenMPI
Kafka
Flink (incl. KDA)
Storm
MOSIX
Elasticsearch

Coding Languages

Fluent: C/C++, Python, Perl
Experienced: Java, Bash, Awk

Soft Skills

Engineering Leadership

Multi-Team Management

Customer Need Analysis

HA-HP Software
Architecture & Design

Public Speaking

Academic Grade Experiment
Design and Analysis

Technical Writing and
Documentation

Tadmor Culinary School
Certified Bartender

Design, development, management, orchestration and maintenance of various projects in the field of fast data and high data volume (big data) system integration and automation.

Researcher, Senior Programmer 2010 – 2012

Scientific Computing Group, NRCN

The construction and deployment of a multi-teraFLOP parallel computing system, designated for parallel and serial large scale scientific calculations.

Researcher, Programmer 2007–2010

MOSIX Lab, Hebrew University, Jerusalem, Israel (HUJI)

Building and maintaining parts of the MOSIX clustered computing preemptive process migration system, as well as providing technical support and guidance for MOSIX users and programmers.

Campus Ambassador 2007 – 2010

Sun Microsystems

Computer Engineering, B.Sc, 2006 – 2009

Hebrew University, Jerusalem, Israel (HUJI)

High performance clustered computing and software design specialization under Prof. Amnon Barak

PUBLICATIONS

- **Data Modeling Manifesto** <https://data.adamlev.com/>, 2023
- **Timer Lawn: an Unbound Low Latency Timer Data Structure for Large Scale, High Throughput Systems** <https://arxiv.org/abs/1906.10860>, under review by *IEEE/ACM Transactions on Networking*, 2019
- **Breaking the interpretation bottleneck: Examining the utility of an automated genomic interpretation algorithm in a clinical genetic lab** <https://tinyurl.com/Emedgenepub>, ASHG, 2019
- **Performance and Scale Troubleshooting Field Manual** <https://www.amazon.com/dp/B07TMNVZDP>, KPN, 2018
- **Fast Data - Moving beyond from Big Data's map-reduce** <https://arxiv.org/abs/1906.10468>, GeoPython Journal, 2016
- **Open-MPI over MOSIX: paralleled computing in a clustered world**, <https://arxiv.org/abs/1907.00194>, HUJI Undergrad project as part of the MOSIX lab preparation for [Automatic Resource-Centric Process Migration for MPI](#), 2009
- **מהר מהר** - a Hebrew podcast mini-series about software architecture, performance, and scale. <https://spoti.fi/3wCHa8d>. 2018

PUBLIC SPEAKING

- **Redis Conf**, San Francisco, 2018
- **Elevation Academy's Data Science Program**, Tel-Aviv, 2017
- **Reversim Conf**, Rishon Le-Zion, 2017
- **Clean Code Alliance meetup**, Tel-Aviv, 2017
- **GeoPython**, Basel, 2016
- **Redis Day**, Tel-Aviv, 2016
- **DevOps Days**, Tel-Aviv 2014

ACTIVITIES & AWARDS

- Honorary mention for Rede Redis Module in the **2016** Redis Modules Hackathon
- Gee.kim Hackathon winner, Kosher value-based business mapping **2015**
- AngelHack TLV 1st place, "Bread & Butter" food reclaim infrastructure **2014**
- Honorary mention for a project in the field of distributed computing, HUJI **2009**
- "Student-for-Student" counselling for matriculation computer science exams. (VB, Pascal, C, JAVA, basic algorithmics), **2005-2006**