# ADAM LEV-LIBFELD

Looking for a senior technological leadership role

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*System architect, team leader, public speaker and writer. I help design and build modern, high performing, highly available architectures and code.*
**See my recommendations at www.adamlev.com**

## EMPLOYMENT

### V&P R&D                                           2023-current
**Sepio Cyber**

### 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**
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.

## Tools and Platforms

GCP
AWS (certified SA)

Linux/UNIX internals
Kubernetes

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

## Coding Languages

*Fluent:* C/C++, Python, Perl
*Experienced:* Java, Shell, Awk

## Soft Skills

Client Relations, Need-
 Analysis and Management

HA-HP Software
             Architecture & Design

Public Speaking

Academic Grade Experiment
             Design and Analysis

Technical Writing and
                 Documentation

## Certifications

AWS Certified Solutions
             Architect - Associate

Mellanox InfiniBand Networks
      and Troubleshooting
                 Professional

Sun Microsystems Certified
             Programmer for Java

Tadmor Culinary School
             Certified Bartender

### 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

➔ **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**