# Moshe Beeri

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Expert in building new products from the ground up, leading innovation and strategic operations for start-up's to mid-range companies, expert in big data and machine learning/AI & Blockchain technologies.

20+ years' experience, starting as software developer and manager, continue with development roles in various positions at start-up's in the fields of security and networking.

**Achievements highlights:**

- Founding BriKoin – Blockchain real-estate trading application.
- Founding This.Deals a fully featured social network application for small businesses.
- Building a full end to end virtual encrypted file system using Aladdin token.
- Developing the first eGap security device.
- Extending Linux kernel to support multiple network stacks.

**Highlights of Expertise:**

- High-end analytical skills.
- experienced with negotiations, partnering with 3rd parties, working with legal and accounting advisories.
- Visionary & presentative with sale capabilities
- Leading digital products development from inception to go-to-market
- Defining product, vision and road map
- Leading strategy and innovation
- Establish new teams while leading to innovative solutions and products.
- Building and managing development team, agile scrum and CI/CD
- Expert in modern software design and implementation.
- End-to-End 'all stack' capabilities from modern client-side capabilities through Big Data toward Machine Learning and AI.

**Recent Technological Stack:**

| | |
|---|---|
| *Node.js Javascript & Typescript* | *AWS & GCP Clouds.* |
| *Python & machine learning using Pandas, SKLearn, NumPy, TPOT* | *Big Data – Enterprise Technical leader using PySpark, Hive, HDFS etc.* |
| *Deep Learning with TensorFlow* | *Kafka* |
| *Conceptual Enterprise architecture* | *Reactive & Serverless using firebase.* |
| *React & React native.* | *Agile & CI/CD* |
| *Solidity & Ethereum.* | *No-SQL: Neo4J, MongoDB, Redis, couchbaseDB* |

# Career Experience

Tabit

(12/2019 to 6/2020)

**CTO Division –  Chief Technology Architect**

*Moshe Beeri, Software & Business Leader*

Designing next stage architecture with serverless technologies, improving data flow channels between different subsystems and client-side applications.

Planning new architecture to accommodate exponential growth while expending to the US & EU markets using microservice architecture utilizing advance Kubernetes deployments.

Developed Prometheus and Jaeger performance testing capabilities, with Gatling Scala empowered load test, while implementing few middlewares to track down issues in NodeJs components over K8s.

Building MongoDB data lake on top of AWS S3, established ELK stack framework to accommodate data analysis.

Working side by side with CTO and DevOps team leader.


BriKoin.com – Blockchain Real-estate & prop-tech
(5/2018 – 12/2019)

**Co-Founder, CTO & Architect**

Established blockchain application as cross border Real-estate trading platform.

Managing the establishment and the development of the initiative from the idea to running stage, the company has been accepted to EY's blockchain startup's program as well as GKH startup program.

BriKoin's product covers trading, legal, security, funds management including p2p mortgages. Designed to keeping the system flexible to regulatory and trading methods.

I designed and implemented vas parts of the product including Ethereum's solidity contracts with full unit test coverage.

Utilizing firebase serverless technologies with react-redux hooks stack.

The company is still under business development lead by shareholder.


Bank Leumi


(5/2016 to 11/2019)

**CTO Division – Technical Leader, Innovation & Strategy consultant**

Covering the following areas at the CTO division - Big Data, Machine Learning, Blockchain, Risk, Payments, Enterprise architecture.

Technically leading new innovations and strategic planning, In the fields of Big Data, Machine Learning, Block Chain technologies, Risk related technologies, Cloud computing, and full-stack engineering, Led the establishment of Big-Data and Machine learning frameworks at Bank-Leumi.

Lead teams and managers to reach technical and regulatory standards.

Lead the development of the innovation lab under the CTO office.

Actively participated in planning defining and implementation of new product and processes.


THIS DEALS – Social Network & Loyalty Application for consumers (Start-up)
(8/2015 – 5/2018)

**Founder, CTO & Big Data**

Designed architecture and implemented a full scale social network for promotions and discounts distribution.

The product enables multiple merchants and customers to collaborate.

Implementing and designing distributed solution using AWS services, Neo4j graph database, mongodb and elastic-search, in order to perform on all applicable levels.

The architecture was developed using Node.js, docker, Jenkins, continuous integration.

Recommendation Engine implemented using graph database, and combined geo location, social information and

purchase history, to provide in feed recommendations.
Full product design, server side and mobile application, leading research in the fields of game theory, mechanism design, and economical aspects of promotions.


## BEHALF - Short term financing (Start-up)
(2016)

**Freelance Java Developer**

Maintained and developed, risk and fraud analysis intelligence product by connecting informative graph regarding the online entities in subject.


## LEADSPACE – Lead Generator
(2014)

**Senior Big Data & Cloud – Java Developer**

Lead transition to micro-service architecture while developing large scale elastic-search based index, in the magnitude of hundreds millions records, for real time analysis.

Developed RESTfull generic wrappers to accommodate micro service oriented framework for various NoSql and Big Data containers, including MongoDB, Couchbase, Solr.

Lead development transition toward continuous integration methodologies.

Developed core technology and infrastructure for all services and lead the company transition towards Micro-Service architecture including feature toggling, metrics, and usage management. Lead development transition toward continuous integration methodologies


## Self Employed – Big Data & Cloud Consultancy
(2011-2013)

BIG DATA & CLOUD

ORBOGRAPH – AWS Cloud architecture and implementation

Designing cloud solution for on-line insurance health claims processing involving automated and humanized process managed over AWS cloud flow.

The developed solution involved MongoDB multi-tenant cloud solution using Amazon web services (AWS) Apache Camel and Spring framework combined with the following EC2, S3 and SQS AWS tools.


CORTICA – machine learning technologies

BIG DATA & CLOUD

Developed big data and cloud solution, designed to scale, for in images web based advertisement network.

Migrated Java based web components to Amazon web services (AWS), Migrated MPP database solutions to big data environment, migrated Java and PHP components to AWS Elastic Beanstalk, utilizing elastic-cache solution.

Designed and developed POC for big data solution using Hadoop and hive, with flume to analyses bids and advertisements performances.

Using the following AWS services S3, EC2, RDS, SQS, SNS, EMR, Elastic-Cache and CouchDB NoSql.


BLAZEMETER – cloud load testing

BIG DATA & CLOUD

Developed a Java application for real-time high-performance data analysis.

On-line large and very fast stream analysis in Java developed MongoDB repository for the analysis results.

REST interface web service for reports stored in MongoDB using JERSY with Tomcat servlet container.

AWS management using JClouds.

Developed Jenkins plugin wrapping blazemeter load testing services including API design.

GOLDEN ERA - Algorithmic trading company
(2010 to 8/2011)
**CO FOUNDER AND GROUP LEADER**
- Managed team of 5 engineers, using AWS systems extensively for data collection and computation power allocation using EC2 for statistical analysis learning algorithms that resembles data mining algorithms. Developed using Java and C++, managing live 24/7 production trading system.

ALADDIN – Security systems
(8/2007-8/2008)
**ECRYPTION ENGINEER (Freelance)**
- Development of virtual encrypted file system integrated with Aladdin e-Token solution.
- "One man show" in all aspects of development.
- Windows file system driver, Encryption filter driver.
- PKCS#11 and PKCS#5 integration and usability for file system encryption system (AES-XTS mode) research.
- Cipher integration at driver level, GUI Development (QT).
- Driver and file system mounting and mount management.
- AES-XTS mode File system encryption.

PURESIGHT – Parental control
(6/2005-7/2007)
**LINUX C++ DEVELOPER**
- Parental control developed using C++ on Linux
- Developed enhancement to ICAP protocol Squid cache proxy improved to better support parental control.
- Developed SOAP like XML messaging layer to support distributed architecture.
- Multi-layer discipline for mobile providers integration.
- Apache to Perl extension to integrate with core API.

KAVADOO – Layer 7 firewall
(2004-6/2005)
**C++ DEVELOPER**
- SSL Deciphering while authorizing man-in-the-middle.
- Strong knowledge with SSL protocol including various cipher suites, RSA, DES, AES(Rijndael) and Diffie-Hellman.
- Strong knowledge with symmetric and asymmetric cipher suites.
- Worked with OpenSSL, SSLDump, and HTTPS.

MAGNIFIRE NETWORKS – Web application security
(2002-2003)
**LINUX KERNEL DEVELOPER**
- Developed DOS (denial of service), networks Security protection system
- Developed a Linux Kernel enhancement to capture ETH packages.
- Writing a transparent TCP/IP stack communication validation.
- Worked with C languages under Linux kernel using multi-threaded environment.

KERENIX NETWORKS – Optical routing
(2001)
**LINUX KERNEL DEVELOPER**

- Linux developer for fiber optics router
- Linux Kernel enhancement for routing protocol simulation to support multiple TCP stack on one machine.
- BGP protocol enhancements.
- Worked with C++ and C languages.

Junior Engineer

(1997 to 2000)

TELRAD – Telecommunication technologies                                                    (2000)
**WEB PROJECT (TEAM) LEADER**
Leading the development of a multi-tier web application for technical maintainers using IIS & Web development.

WHALE COMMUNICATIONS – Security (Air Gap)                                       (1999)
**DEVELOPER**
Developing e-Gap technologies first beta using Windows NT and C++.

MTS – Telecomm & Billing                                                                              (1998)
**DEVELOPER**
Developed new product using C++, networking, database, UI, SQL-Server and TCP/IP.

AMPOL – Military Standard Development Tools                                            (1997)
**DEVELOPER**
Developed extensions for IAI and Rafael for MIL STD 1553 telemetry, for the 1553 and MIL STD &win32 set of widgets for virtual panel simulation.

# Patent

12/2017 *Systems methods and computer readable storage media (e.g. blockchain) for enabling decentralized ex-banking accounts with diversified interactable financial service* (pending)*.

# Education & Credentials

2001-2004, *Physics and Computer science at Ben-Gurion University, Israel*

Military Service – 1989-1992, *Electronic Warfare, Communication Corp Technological Unit*

# Languages

Hebrew (Native) **|** English (Fluent)