

Ariel Imber

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Year of Birth: 1979

Summary:

Experience in Big Data Eco Systems and Machine Learning including Apache spark and Cloud environment.

Experience in system architecture.

Vast knowledge and experience in Cyber Security (HW, SW, Middleware, Algorithms and Communication).

Experience in Algorithm development, research and implementation.

Technical leader of big development groups, Team integrator and cross team collaboration.

Experience in Real Time Embedded.

Experience in iOS (CPU and GPU).

Background in QA.

Hardworking, Works well with people.

Experience:

2020-present: **iOS developer and Algorithm Implementation** at Lightricks

Implementation of image processing advanced algorithms.

iOs development, GPU, UI in Objective C and Swift.

2017-2020: **Algorithm Engineer** at Mobileye

Algorithms development and implementation for high resolution 3D maps used in Autonomous Vehicles.

Machine Learning algorithms development for road condition assessment.

Development of big data ingestion process and algorithm pipelines using Apache Spark, Google Lambda, AWS Athena

2012-2017: **Data Scientist, Big Data Engineer and Technical Leader** at Cisco,

InfoSec products development using customer profiling.

Technical leader and team integrator of a 12 people team.

Machine Learning Algorithms Development, Including Data Exploration, Features design and Modeling.

Big Data Ecosystems experience:

- Workers orchestration and provisioning on Amazon EMR
- Apache Spark vast coding experience
- Ingestion Pipeline
- Hadoop Ecosystem Clusters
- ELK
- BI tools (Tableau, Kibana).

Technical Leader, Architecture, and Development at Cisco

Development, co-architecture and leading of SCADA Plants security product.

Technical leader and team integrator of a 12 people team.

This included HW security, HW Drivers, Custom Bootloader security, Custom Hardened Linux OS, Embedded C and NodeJS Web servers.

Researcher and P.O.C.s New Initiatives Team, Research at Cisco

Implementation of proprietary cryptographic protocols

Implementation of secure SW Download mechanism to Automotive ECUs.

2006-2011: **SW Engineer** at NDS

Design and implementation of Compiler Toolchain and post processing cryptographic toolchain test system.

Co-architecture of proprietary joined HW-Compiler security.

Smart-Card Co-processor design team. Co-processor and Assembler testing.

Design and Implementation of propriety Build System.

Tester of behavioral ASIC SW Simulator. Thorough knowledge of HW and VHDL.

Key Generation and Management system testing. SQL and C#.

Education:

2009-2010 M.Sc. Computer Science.

The Hebrew University of Jerusalem. Graduate with honors.

Thesis in the field of Stochastic Signal Processing. Mathematical model for Spectrum "Holes".

2004-2007 B.Sc. Computer Engineering.

Award of excellence for best final project. Specialized in machine learning

Military Service:

1999-2001 "Golani" Brigade. Company role model award.

Skills & Expertise:

Environments: Apache Spark, python pandas, Hadoop Ecosystem, Amazon EMR, ELK, Vagrant, Docker HW drivers, Linux Embedded, GCC internals, NodeJS, SQL and NoSQL Databases (Oracle, MySQL, PostgreSQL, , Amazon Athena), iOS.

Programming Languages: C, C++, bash, python, Assembly, Java, Scala, JavaScript, SQL, C#, Matlab, Objective C, Swift.

Languages: Hebrew mother tongue level, fluent English, upper intermediate Arabic