

## OLEG GOLDSHMIDT

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### ABOUT

An experienced executive and a versatile and creative technology and product leader with a proven record of creating highly successful products from inception and initial research to field deployment and long term maintenance. Equally comfortable with identifying challenges, devising practical and innovative solutions, managing projects and teams, and working with demanding clients in various markets and industries. Brings to the table extensive experience in data, algorithms, finance, trading, systems, networks, cloud technologies, security, software development. Excellent oral and written communication skills. Extensive university teaching and industry training experience.

### EMPLOYMENT HISTORY

**2018 – 2020: CTO — TrapX Security, Tel Aviv, Israel.**

**2014 – 2018: Director, Product Architecture.**

*TrapX Security is a pioneering and leading vendor of Distributed Deception — a novel approach to cyber-defense unifying IT, OT, IoT environments — with hundreds of customers worldwide, including many household names.*

- Senior company executive responsible for all the technology aspects of business strategy.
- Member of the executive team, involved in all the major decisions and planning of the company activities, reporting regularly to the Board of Directors.
- Principal architect of the company's DeceptionGrid™ product deployable on enterprise premises, in industrial facilities, or in the cloud (AWS, Azure, GCP, OpenStack).
- Working closely with customers, partners, and all functions within the company.
- Internal and customer-facing documentation, presentation, lectures, training, etc.
- Responsible for the company's intellectual property development and patent activity.

**2009 – 2013: Director, Research — TraderTools Inc., Raanana, Israel.**

*TraderTools provides a comprehensive FX trading platform aggregating liquidity from most of the world's top-tier banks and ECNs, smart order routing, pricing, white-labeling, and global order management.*

- Key member of the Product Strategy team.
- Developed and implemented an algorithmic suite for market data aggregation, optimal order execution, pricing engine, algorithmic trading, etc.
- Responsible for critical technology choices for the company's products, including LightFX™ — the cloud (SaaS) liquidity aggregation solution.
- Working closely with dozens of customers (FX trading desks of the world's leading sell-side banks and brokerages) and with all functions within the company.

**2007 – 2009: Director, System Architecture — Voltaire Ltd., Herzliya, Israel.**

*Voltaire Ltd. was a leading provider of InfiniBand and Ethernet interconnect solutions, software, and services (acquired by Mellanox Ltd.). Clients included the world major banks, hedge funds, data centre operators, and supercomputing labs.*

- Created and led a System Architecture group coordinating the efforts of Product Management, R&D, QA, Support, Operations through the product lifecycle.
- Principal architect of the company’s high performance, low latency InfiniBand and Ethernet switches (HW and SW), device management and fabric management software.
- Major achievements included the world’s first PetaFLOP supercomputer (“Roadrunner”), multiple high-frequency trading systems with sub-microsecond latencies, and Oracle’s high performance Exadata database machine, among other products.
- Worked in close contact with vendors and customers, including top tier exchanges and investment banks.

**2002 – 2007: Research Staff Member — IBM Research, Haifa, Israel.**

*IBM Haifa Research Lab is the largest lab of IBM Research Division outside of the US.*

Led multiple research and development projects (typical budget \$1.5M+), most of which have been incorporated into products, including novel system architectures for servers and parallel supercomputers, operating systems, distributed systems, virtualization. Examples include:

- The Blue Gene supercomputer became the fastest in the world. Its successors remain among the fastest parallel systems today, scalable to millions of cores.
- “IP Only Server” created a radically simplified, efficient server HW architecture.
- “Commercial Scale-Out” dealt with dynamic system and storage provisioning and management on a massive scale.
- “Collaborative driving systems” was an early, ahead-of-its-time look at traffic systems involving “smart” and autonomous vehicles.

**2001 – 2002: Director of Development — DataZoo Ltd., Raanana, Israel.**

*DataZoo developed an efficient and flexible AI/ML multidimensional classification engine.*

- Leading development of real time AI/ML algorithms and software.
- AI-based traffic analysis in IP networks provided the only effective protection against DDoS attacks.

**2000 – 2001: Head of Algorithm Development — Comgates Ltd., Herzliya, Israel.**

*Comgates was a leading provider of Voice and Video over IP platforms (acquired by BATM).*

- Managed multiple R&D teams (>30 researchers and SW developers).
- Led development of models, algorithms, policies, and protocols for QoS-oriented real time applications.

**1996 – 2000: Financial Analyst — Bloomberg L.P. (BFM), Tel Aviv, Israel.**

*Bloomberg L.P. provides data services, financial analytics, trading platforms, and news.*

Responsible for the vanilla and exotic option pricing functionality on the Bloomberg system, across all markets.

- Managed a team of quantitative researchers and developers.
- Developed financial and mathematical models, algorithms, and software for analysis and pricing of complex derivative securities in equity, currency, and commodity markets.
- Published financial analysis papers in the Bloomberg magazine and other publications.
- Worked closely with Bloomberg customers across the world.

## EDUCATION AND ACADEMIC EXPERIENCE

**2019:** *Adjunct Professor, IDC, Herzliya, Israel.* Teaching Statistical Methods and Data Analysis.

**2004 – 2007:** *Adjunct Professor, University of Haifa, Haifa, Israel.* Teaching undergraduate and graduate level courses in Basic and Advanced Operating Systems.

**1995:** *Postdoctoral Researcher, Pennsylvania State University, State College, PA, and Institute for Theoretical Physics, University of California, Santa Barbara, CA.* Research in high energy astrophysics.

**1994:** *Visiting Researcher, Scuola Internazionale Superiore di Studi Avanzati (SISSA), Trieste, Italy.* Research in astrophysics and cosmology.

**1991 – 1995:** *Ph. D. in Physics, Tel Aviv University, Tel Aviv, Israel.* Research in plasma physics, radiation processes, physics of interstellar and intergalactic medium, and cosmology. Teaching courses in modern physics and physics laboratory.

**1983 – 1990:** *B.Sc. and M.Sc. (summa cum laude) in Radiophysics and Electronics, Gorky State University, Gorky (now Nizhny Novgorod), USSR.* [1984–1986: military service.] Research in plasma physics, radiowave propagation, physics of the ionosphere, interplanetary/interstellar medium, solar physics.

## PUBLICATIONS

Over 30 publications in computer science, finance, physics, and astrophysics. Several patents and patent applications. The full list is available upon request.

## GENERAL SKILLS

**Data Science:** R, NumPy, SciPy, Pandas, NLTK, TensorFlow/Keras, Jupyter/Colab, etc.

**Cloud and virtualization:** AWS, Azure, GCP, OpenStack, VmWare, KVM, Hyper-V, Docker, etc.

**Programming languages:** Python, R, C++, C, Java, PHP, Perl, Lisp, shells, AWK, etc.

**Languages:** Native in English, Hebrew, Russian. Fluent Italian.

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*More information is available from <http://www.goldshmidt.org>.*