DAGAN GILAT

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About

- Experienced hands-on R&D leader.
- Lead end to end software products & services from inception to prototype, design, implementation, deployment, and operation.
- Managed software research & development teams, locally and remotely.
- Developed scalable & resilient systems, employing cutting edge technologies in Distributed Systems, Cloud, and Machine Learning.
- Special interest and focus in Microservices architecture and patterns, and the Go and Rust programming languages.

Experience

2020 – Present - Plantago – Founder
- Advanced Microservices Research & Development.
    - Technologies used: AWS Lambda, S3, gRPC.
- Languages used: Go, Rust, Python

2018 – 2020 - HyperMesh - Co-Founder
- Crowdsourced Telco.
- Building infrastructure for decentralized telecom networks.
- Architected and developed HyperMesh backend, including PKI infrastructure, Network architecture, and network functions.
- Technologies used: AWS Lambda, S3, Redis, RDS, Jupyter, RADIUS.
- Languages used: Python, Elixir, Rust

2015-2017 - Toga Networks - CTO, Machine Learning
- Lead teams of machine learning and cloud researchers and developers, locally and in China.
- Research and development of Next Generation Cloud Scaling and Scheduling Systems, Leveraging Reinforcement Learning and Deep Learning on top of Kubernetes and OpenStack.
- Technologies used: Python, Jupyter, Spark, Keras, PyTorch and TensorFlow.
- Lead research and development of AutoScaler - Machine Learning based Auto Scaling Which was delivered to Huawei FusionSphere product.
- Lead the design and development of scheduling solutions for Cloud based big data processing which was delivered to Huawei FusionInsight product.

2009 -2014 - IBM Research - Senior Manager, Cloud Platforms
- Managed four groups which are focused on Research & Development of Cloud Infrastructure and Platforms in the areas of Virtualization, Systems Architecture, Systems Management, Storage and Networking.
- Outstanding accomplishments for contributions to products in the cloud infrastructure area - IBM Cloud Manager, IBM Cloud Orchestrator, IBM Cloud OpenStack Services, IBM Real Time Compression, with measured value of 100's M$.
- Lead global research strategy and manage research & development of Cloud Computing infrastructure & platforms (IaaS/PaaS layers).

2003-2009 - IBM Research - Manager & Senior Manager, Business Transformation & Optimization
- Outstanding accomplishment for substantial contributions to Business Optimization area (measured value of about 60 M$.
- Delivered technologies to IBM products, services, solutions and direct customer engagements.
- Developed Call Center Scheduler (SWOPS), which is deployed in 7 contact centers, and the Airline Crew Pairing System, which is successfully deployed in El-Al Israel Airlines.
- Designed, developed and deployed IBM Massive Collection System (MCS) for Telco Revenue Assurance (Airtel and IDEA Telco).
- Designed, developed and deployed IBM Container Logistics Optimization for Shipping Companies (Zim Shipping, Hanjin shipping, Hapag Lloyd and Maersk shipping companies).

2001-2003 - IBM Research - Research Staff Member

- Lead the development of two core technologies: ARAD (Active Real-time Automated Decision Making) and ADI (Active Dependency Integration), which are used as building blocks for solutions in various industries.

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