

# RON AHARONI

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## Summary

Distributed systems engineer and tech leader. Experienced in building resilient and maintainable microservice architectures and stream processing services. My focus is JVM-based microservices in Scala using functional programming.

Passionate about teaching, learning, and enabling an efficient and scalable development processes.

## Professional Experience

**Senior Backend Engineer, Mentor, Core & Infra Teams, Riskified** 2017 — current

- Worked on all aspects of breaking down a monolithic Rails application into Scala microservices: technology selection, developing core libraries, build plugins, and infrastructure, introducing gRPC, and setting up CI/CD pipelines.
- Led, architected, and contributed to several microservice migration projects. Projects included data enrichment pipelines, financial transaction processing, and feature engineering.
- As group mentor, was primary technical point of contact to 30 developers, providing daily and ongoing software engineering consulting and lecturing on software design, data modelling, and functional programming. Lectured at [Scalapeño 2018](#).
- Coordinated a cross team effort to improve confidence in deployments, by introducing integration tests to the company, writing testing infrastructure, and assisting teams in incorporating testing in their development cycles.

**Backend Engineer, Wix Code Team, Wix** 2014 — 2017

- Worked on a platform enabling Wix users to develop and run cloud hosted web applications.
- Developed a distributed, low latency, cost effective, orchestration system for millions of containers running untrusted code.
- Implemented algorithms for efficient resource allocation, fault tolerance and automated recovery.
- Led integration efforts with the Azure cloud, and evaluated performance and stability.

**Data Engineer, Pipl** 2013 — 2014

- Worked on a large, custom search system's data processing pipeline.
- Researched and developed supervised learning algorithms to automate data extraction from html pages.
- Implemented a distributed, high throughput system for processing crawl data using Python, Cassandra and Redis.

## Education

**M.Sc., Computer Science, IDC Herzliya** 2016 — 2020

- Research projects in NLP (paragraph2vec), Dimensionality reduction.

**B.Sc., Computer Science & Bioinformatics, Hebrew University of Jerusalem** 2009 — 2012

- Undergraduate research project focused on predicting protein structure, Furman Lab.

## Skills & Proficiencies

<b>Languages</b>	Scala, Python, Java, {Java, Type}Script (Node.js), SQL, T <sub>E</sub> X
<b>Scala</b>	Cats, Akka {Http, Streams, Actors}, Shapeless, Slick, sbt
<b>Python</b>	scikit-learn, numpy, pandas, matplotlib, networkx, SQLAlchemy
<b>Data &amp; Streaming</b>	Kafka Streams, Elasticsearch, Cassandra, DynamoDB, Protobuf, Avro, PostgreSQL, MySQL, Redis, Neo4j
<b>Cloud</b>	AWS, Docker, K8S, Argo CI & CD, Helm, Istio, Prometheus