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, with a focus on JVM-based services in Scala using functional programming. I actively foster engineering excellence by leading, supporting and collaborating. Passionate about learning, teaching, and enabling others to be more productive.

Professional Experience

Senior Backend Engineer, Mentor, *Riskified*   *Mar 2017 — current*

- Worked on all aspects of breaking down a monolithic Rails application into microservices: technology selection, developing core libraries, build plugins, and infrastructure, introducing RPC, and setting up CI/CD pipelines.
- Led several microservice migration projects, including data enrichment pipelines, financial transaction processing, and feature engineering.
- Coordinated a company wide effort to improve quality by introducing testing at all levels, and assisting teams in incorporating testing in their development cycles.
- Mentored over 30 developers, providing daily and ongoing software engineering consulting and coding support. Lectured on data modelling, testing, and functional programming.

Backend Engineer, *Wix*   *Aug 2014 — Mar 2017*

- Worked on a PaaS enabling 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*   *Sep 2013 — Aug 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.

Talks

Type Class Derivation x Scala 3   *Riskified technology meetup, June 2021*
Metaprogramming in Scala 3

Adopting Cats   *Scalapeño 2018*
Functional programming

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*

- Research project focused on predicting protein structure, Furman Lab.

Skills & Proficiencies

Languages	Scala, Python, Java, TypeScript (Node.js), SQL, TeX
Scala	Cats, Akka {Http, Streams, Actors}, Shapeless, sbt
Python	scikit-learn, numpy, pandas, matplotlib, networkx, SQLalchemy
Data & Streaming	Kafka Streams, Elasticsearch, Cassandra, DynamoDB, Redis, Neo4j
Cloud	AWS, Docker, K8S, Argo CI & CD, Azure