

## CV - Guy Rapaport

I am a Software Engineer (B.Sc from Ben Gurion University, 2012) with rich experience in backend development, specializing in complex Machine Learning pipelines. I'm looking for new challenges involving large-scale, customer-facing production systems with a focus on solid engineering and industry-standard practices.

### Current Employment

**August 2016 - Present** - Machine Learning Engineer at **Apple**. I work as part of a team developing Machine Learning solutions for Apple products. During my time at Apple I was both a team player and a team lead for various projects. These include:

- Led a team of 3 in designing and implementing a scalable root-cause analysis system for data collected during manufacturing. The system processed terabytes of data stored in Hadoop, narrowing it to tables used for training Gradient Boosted Decision Trees models. Significantly reduced production malfunctions and costs in iPhone manufacturing.
- Data cleansing pipelines for 3D LIDAR data used for training the AppleDepth densification network. My team contributed to the evaluation process of the Candidate Release model, affecting the model chosen for release and working under tight schedules.
- Automated Optical Inspection (AOI) for iPhone and Apple Watch. This included data collection and tagging in different factories in China; training Image Classification and Object Detection models in PyTorch; and deploying a server wrapping said models on an air-gapped system in the factory.

### Relevant Experience

**September 2014 - August 2016** - Data Scientist at **Turi** (acquired by **Apple**). I gave product demos to customers, talked at conferences and hackathons in Israel and Europe, and worked on Proof-of-Concept projects for customers.

**March 2015 - March 2016** - Algorithm Designer at **Fifth Dimension**. My work mainly revolved around analyzing Call Data Records (CDRs), but also dealt with other pattern recognition domains (images, voice), preferably using neural networks and deep learning.

**2010 - 2015** – **Ben Gurion University**: Teaching Assistant (OO Analysis and Design), Hadoop Cluster Administrator and Student Big-Data Projects Adviser.

### Languages and Skills

**Python** – Excellent knowledge. Worked with Python for the past 10 years. Also created and taught a [course in Python for biology MSc and PhD students](#).

**Other Skills:** **JavaScript** (jQuery and d3js), **Linux** (shell scripting, system administration), **git**, **docker**, **databases** (SQL, Elasticsearch, Redis), **Java & C#** (moderate experience).