Andrew Fandrianto

A full stack ML engineer and people manager

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EDUCATION

• Carnegie Mellon University

Master of Language Technologies

Bachelor of Science in Computer Science

Pittsburgh, PA 2013 2011

• The Harker School San Jose, CA

SKILLS

• **People**: Technical Lead Manager for 2+ years. Mentored 20+.

- Computer Languages: Python, Shell, *SQL.
- Dusty Computer Languages: C++, Golang, Java, Scala, Jsonnet, Borgefg, C, Javascript, C#, R, Matlab.
- Homosapien Languages: Conversant in Indonesian.
- Things: MapReduce++, Jupyter, pandas/sklearn/etc, TensorFlow, Superset, Presto/Trino, Docker, IntelliJ*, AWS, Git, Vim.
- Dusty Things: PyTorch, JAX, AppEngine, Perforce, Eclipse, Maven, Postgres, Kubernetes, Hadoop, Argo, Jenkins, Airflow.

EXPERIENCE

Google

• Apple
Machine Learning Engineering Manager, AIML
Machine Learning Engineer, AIML

Cupertino, CA 2021-present

2019-2021

• Applied machine learning with external impact:

Led and contributed to search quality projects for Siri, Safari, and Spotlight.

- * User Feedback: Team and I built a comprehensive, debuggable framework to leverage user feedback. Improved quality of 7+ domains through 20+ statistically significant launches, about half requiring ML. Directly handled a majority of the end-to-end process: {privacy review, device ground truth testing, backend migrations, data pipelines, server models, on-device models, eval, debug, launch, landing, metrics, monitoring, automation}.
- * Web Answers: E.g. [why is the ocean blue]. Improved Web Answers coverage by +xx% relative with models, classic and dense retrieval, query sampling, and practical hacks.
- Built a team and helped grow the organization: Concurrently managing 7 (max 10) individual contributors. Directly hired 10. Built and ramped a new team from scratch.

Software Engineer, Search Quality
Software Engineer, Research

Mountain View, CA

2018-2019

2014-2018

• Applied machine learning with external impact:

Led and/or contributed to projects for Search, Google Play, and the TensorFlow ecosystem {ops, TensorBoard}. Typically handled these pieces: {data, model, eval, debug, launch, landing}.

- * Related Answers: E.g. [why does reading on a train make me sleepy]. Text modeling for snippet ranking with BERT++. Led subgroup, mentored incoming engineers, improved xx% of Google Search and Assistant traffic.
- * Short Answers: E.g. [what is the most abundant gas in venus]. Started cross functional effort between research and product engineering, jointly led subgroup, improved x% of Google Search and Assistant traffic.
- * Play Store Search: Image modeling for app search quality with ImageNet++. Generated +\$xxM revenue.
- Owned datasets for internal/external machine learning research (n*100GB-m*1PB): github.com/google-research-datasets/wiki-reading

• eBay
Software Engineer

Microsoft

San Jose, CA

2013-2014

• Language Technologies Institute at CMU

Pittsburgh, PA

Graduate Research Assistant

2011-2013

Software Development Engineer Intern Software Development Engineer Intern Mountain View, CA
Summer 2011

• ITA Software (acquired by Google)

Summer 2010 Boston, MA

User Interface Engineering Intern

 $Summer\ 2009$

UC Berkeley Bioengineering, Professor Dan Fletcher

Berkeley, CA Summer 2008

Researcher @ Berkeley Bioengineering Summer Research Program

San Jose, CA

Software Developer Intern

• Cisco Systems

Summer~2006