

# Michael Graczyk

Machine Learning Researcher and Engineer with 11+ Years of Experience

mgraczyk.com  
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## Work

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- **Google Research** google.com  
*Staff Engineer* 2021 - Present
  - Researching computational photography with generative AI, synthetic data
  - Tech Lead for projects in core image quality, ML models on edge TPUs
  - Built end to end data generation, training, and inference running on millions of devices
- **Instagram (Meta)** instagram.com  
*ML Engineer* 2019 - 2021
  - Tech Lead for camera and comments ranking and personalization
  - Leading cross-functional efforts across multiple teams of 12+ people
  - Domain expert and mentor in delivering machine learning at scale
  - Increased key camera engagement metrics by XX% during COVID compute-capacity crunch
- **OpenToken and hunches** hunches.app  
*Cofounder and CTO* 2017 - 2019
  - Raised \$2.6M in venture capital to build a cryptocurrency crowdfunding platform
  - Managed 3 experienced engineers
  - Set technical direction, design for mixed blockchain/web platform
  - Company pivoted, later acquired at \$XXM valuation
- **comma.ai** comma.ai  
*VP Engineering* 2016 - 2017
  - Managed 2 specialized engineers on mapping and localization projects
  - Designed and trained deep neural networks for driving and video processing
  - Validated and monitored models on public roads in a fleet of hundreds of devices
- **Google** Audio Research  
*Engineer* 2014 - 2016
- **Qualcomm** DSP Architecture  
*Engineer* 2013 - 2014
- **Intel** Graphics Architecture  
*Co-op Engineer* 2012 - 2013

## Education

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- **Stanford University**  
*MS Electrical Engineering*
  - Machine Learning and Distributed Systems
- **University of Texas at Austin**  
*BS Mathematics, BS Electrical Engineering*
  - Applied Mathematics, Signal Processing, and Computer Architecture

## Everything Else

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**Languages:** Python, C/C++, Rust, Javascript/HTML/CSS, Go, solidity,  $\text{\LaTeX}$ , Java, C#, Lua, MATLAB, asm, perl, bash, PHP/Hack

**Other Roles:** Advisor at hero.app (acquired by People.ai), advisor at Store.app, open source contributor, cryptocurrency blogger

**Technologies:** Machine Learning (jax, pytorch, tensorflow), Generative AI, LLMs, Edge TPUs, Blockchain/Cryptocurrency, React, Hardware Emulation, GCP and AWS S{E,N,Q,S,...}S