

Michael Graczyk

Staff-level ML & performance research engineer.

13+ yrs shipping fast multimodal AI to >1 B users, raised \$5 M for two startups.

mgraczyk.com

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github.com/mgraczyk

Work

- **Google Research** google.com
Staff Engineer 2021 - 2023
 - Created >1M-image dataset and trained/optimized U-Net for Edge TPU, runs on >20M Pixel devices
 - Reduced entire pipeline memory/latency/power >10% to make room for my new models
- **Quilt** quilt.app
Cofounder and CTO 2023 - Present
 - Raised \$2.5M to build AI agents for technical sales
 - Scaling team to 4 engineers and 2 sales/ops employees
 - Hundreds of paying users, useful agents with fine-tuned embeddings and search models
- **Instagram (Meta)** instagram.com
ML Engineer 2019 - 2021
 - Reduced ML cost >\$5M/year with optimizations and experiment guardrails
 - Increased camera engagement >10% and stories engagement >0.5% new models and data/value model fixes
 - Tech lead for cross-functional efforts across multiple teams of 12+ people, ML at scale domain expert
- **OpenToken and hunches** hunches.app
Cofounder and CTO 2017 - 2019
 - Raised \$2.6M, hired 3 engineers, built a crypto crowdfunding platform, moved >\$40M
 - Company acquired for \$40M after I left and after a pivot
- **comma.ai** comma.ai
VP Engineering 2016 - 2017
 - Shipped Level 2 self driving to >1000 users with behavioral cloning and computer vision
 - Used LSTMs, custom keras→OpenCL compiler, novel multimodal loss, custom data pipeline
- **Google (audio), Qualcomm (DSP arch), Intel (GPU arch)**
Engineer 2012 - 2016

Education

- **Stanford University**
MS Electrical Engineering - Machine Learning and Distributed Systems
- **University of Texas at Austin**
BS Mathematics, BS Electrical Engineering

Papers

- On pre-filtering strategies for the GCC-PHAT algorithm (2016)
- Design and Analysis of a Hardware CNN Accelerator (2017)
- Automatic Product Categorization for Anonymous Marketplaces (2015)

Everything Else

Languages: Python, C/C++, Rust, Typescript/Javascript, Go, Java, C#, Lua, MATLAB, asm, Perl, Hack

Technologies: ML (pytorch, jax, tensorflow, tfite), LLMs, Agents, Edge TPUs, React, GCP and AWS

Other Roles: Advisor at hero.app (acquired by People.ai), Advisor at Virtual Staging AI (acquired by Zillow)