

Michael Graczyk

I make things with software

more details at mgraczyk.com

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Education

- **Stanford University**
MS Electrical Engineering 2015 - 2018
 - Focus on machine learning and distributed computing
- **University of Texas at Austin**
BS Mathematics, BS Electrical Engineering, both high honors (top 10%) 2009 - 2013
 - Focus on applied mathematics, signal processing, and computer architecture
 - Two degrees in 7 semesters (rare)

Work

- **Instagram** instagram.com
ML Engineer Oct. 2019 - Present
 - Machine Learning for Camera, Stories, Feed
- **OpenToken and hunches** hunches.app
Cofounder and CTO Feb. 2019 - Present
 - Built a crowdfunding site for blockchain projects. Accepted crypto payment and distributed tokens.
 - Wrote software and smart contracts that moved over \$20M USD
 - Managed up to 3 experienced engineers at a time
 - Designed and implemented a new kind of prediction market with simpler UX
- **comma.ai** comma.ai
VP Engineering Oct. 2016 - Oct. 2017
 - 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
 - Managed 2 specialized engineers on mapping and localization projects
- **Google** media signal processing
Engineer Aug. 2014 - Oct. 2016
 - Invented new techniques for practical 3D audio compression
 - Implemented high performance C++ audio processing for low-power and low-latency systems like WebRTC
 - Co-managed 2 engineering interns
- **Qualcomm** DSP Architecture
Engineer Jul. 2013 - Aug. 2014
 - Implemented new DSP coprocessor in C++ simulation. Developed experiments for RTL team
- **Intel, Qualcomm, RF Code** Internships
Engineering Intern 2009 - 2013
 - learned from top engineers in graphics architecture, WCDMA protocol conformance, and RF hardware

Everything Else

Languages: Python, C/C++, Rust, Javascript/HTML/CSS, solidity, \LaTeX , Java, C#, MATLAB, asm, perl, tcl, bash

Other Roles: Blockchain Research Advisor for velo.org, Founder and CEO of bitcrud.com, developed `fastrlp` parser

Technologies: Machine Learning, Distributed Systems, Blockchain/Cryptocurrency, Audio/Video Processing/Compression, React, Hardware Emulation, AWS `S{E,N,Q,S,...}S`

Patents: Projection-based audio coding (US20180124540A1)

Human Languages: Beginner 中文(Chinese), Basic español