

# Michael Graczyk

I make things with software

mgraczyk.com  
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## Work

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- **Instagram** instagram.com  
*ML Engineer* 2019 - Present
  - Tech Lead for Camera and Comments ranking and personalization
  - Contributor to Stories, Feed, and Reels ranking
- **OpenToken and hunches** hunches.app  
*Cofounder and CTO* 2017 - 2019
  - Built a crowdfunding site for blockchain projects and a novel prediction market with simple UX
  - Wrote software and smart contracts that moved over \$20M USD
  - Managed up to 3 experienced engineers at a time
- **comma.ai** comma.ai  
*VP Engineering* 2016 - 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* 2014 - 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* 2013 - 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

## Education

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- **Stanford University**  
*MS Electrical Engineering*
  - Focus on machine learning and distributed computing
- **University of Texas at Austin**  
*BS Mathematics, BS Electrical Engineering, both high honors (top 10%)*
  - Focus on applied mathematics, signal processing, and computer architecture
  - Dual degrees

## Everything Else

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**Languages:** Python, C/C++, Rust, Javascript/HTML/CSS, solidity,  $\text{\LaTeX}$ , 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