MATTHEW SOTOUDEH

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EDUCATION

University of California, Davis   Davis, CA
BS Computer Science, Regents Scholar   Grad: Jun 2021

Lynbrook High School   San Jose, CA
GPA: 3.9   Grad: Jun 2017

EXPERIENCE

Intel Labs   Santa Clara, CA
Research Intern   Jul 2016 — Jan 2018

- Developed state-of-the-art ML parameter compression method. Up to 60% accuracy improvement over existing work after compressing models up to 1000×.
- Optimized compressed matrix-multiplication routine achieves 15× faster inference than MKL.
- Wrote a unified library that simplifies implementation of multiple compression methods in TensorFlow by expressing each method as a weight-generating sub-graph.
- "DeepThin: A Self-Compressing Library for Deep Neural Networks" Presented at SysML 2018. Under review at ICML 2018.

Develop Summer Academy   San Jose, CA
Co-Founder & Instructor   Feb 2016 — August 2017

- Taught over 50 local middle school students programming, leadership, and other life skills
- Developed courses, marketed the camp, handled logistics, and taught classes
- Recognized by our school, district, and House Representative Ro Khana
- Over $30,000 in revenue over two summers.

Action   San Jose, CA
Co-Founder & Chief Software Engineer   Nov 2014 — Jan 2016

- Built product used to improve the meeting follow-up experience for 1,000s of meetings and people around the world.
- Used by teams at Google, Microsoft, and UC Berkeley.

SKILLS

Programming Languages:	C, C++, C#, Python, Javascript, HTML, CSS
Other:	Education, course development

PROJECTS

Docs Plus *Javascript, jQuery, Chrome and Firefox add-on APIs*
https://github.com/matthewsot/docs-plus
Only add-on library that enables deep integration support with the Google Kix editor

SharpSwift *C#, Swift, Roslyn*   https://github.com/matthewsot/sharpswift
C# - Swift transpiler that was one of the first projects to use the Roslyn Compiler API and Swift language

More projects can be found at https://github.com/matthewsot

RECOGNITION

Rep. Ro Khanna Congressional Award
Recognized by House Representative Ro Khanna for my role in founding the innovative Develop Summer Academy.

1st Place FBLA State & National Competitions
Won first place against hundreds of teams across the country for two e-business websites I built and presented.   Jun 2014, Apr 2015

1st Place Application at CodeDay SV
An early version of our meeting efficiency add-on Action beat dozens of other teams at the CodeDay SV hackathon   Oct 2014