

# Matt Linker

contact@mattlinker.me

## EDUCATION

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### Stanford University

*Bachelor of Science: Computer Science*

Relevant Coursework: Computer Organization and Systems, Mathematical Foundations of Computing, Natural Language Understanding, Natural Language Processing with Deep Learning, Computer Vision, Economic Analysis

**Stanford, CA**

*Class of 2019*

### Lakeside School

Three-year varsity athlete, lightweight men's rowing (crew), Eagle Scout

**Seattle, WA**

*Class of 2015*

## WORK EXPERIENCE

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### Morgan Stanley – Institutional Equity Division

*Analyst*

**New York, NY**

*June 2018-August 2018, July 2019-Present*

### Voxa Co

*Software Engineering Intern*

**Seattle, WA**

*June 2016-September 2016, June 2017-August 2017*

- Wrote image-stitching based calibration algorithm for electron microscope stage. Adapted and improved algorithm to detect and correct stitching errors without human input, resulting in 50-100x increase in scan area visible without human intervention, with corresponding 95+% decrease in human workload.
- Designed pipeline for novel reconstruction processes on SEM. Created lowest-cost 3D SEM images ever made.
- Work incorporated into firm's flagship product and sent to International Space Station aboard Cygnus NG-13. Improved scanning correction and 3D imaging algorithms may be included in next round of IP filings.

### BAM.Money

*Software/Product Developer*

**Stamford, CT (remote)**

*March 2017-July 2019*

- Developed financial-technology site to PCI-DSS standards while maintaining intuitive UI.
- Technical advisor to CEO with responsibility for analysis and delegation of development tasks to appropriate teams.

## ACTIVITIES

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### Hawaii Pacific Model United Nations

*Secretary-General*

**Honolulu, HI**

*March 2018-November 2019*

- Selected by large charitable trust to plan, organize, and execute three-day educational conference for roughly 300 high school students. Led international search for top staff members, managed 18 direct reports with additional volunteers and on-site partners during event, and coordinated opening speech by UN Policy Advisor.

### Society for International Affairs at Stanford

*Board of Directors*

**Stanford, CA**

*April 2017-June 2019*

- Personally responsible for budgeting, transportation, accommodations, registration, and preparation for Stanford's nationally and internationally competitive Model United Nations team.
- Managed six-figure organizational balance sheet and \$40,000+ annual budget. Eliminated deficit and individually streamlined conference booking process/policies to reduce average per-delegate cost by 15%.
- Pursued partnerships to attract prominent speakers, including former Secretary of State and former National Security Advisor.

## SELECTED PROJECTS

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### Helping Hands: Teaching ASL to Mobile Users through Computer Vision

*April 2019-June 2019*

- Recognized lack of immediate feedback available to ASL learners without expensive tutoring through detailed need-finding
- Created React Native-based mobile app with ResNet 18 backend to teach ASL with near-instant feedback on all user-generated signs. Winner of Facebook Honorable Mention award at 2019 Stanford Spring Software Fair.

### Megatron: Self-Attended Residual BiDAF-based Question Answering

*February 2019-March 2019*

- Designed a novel architecture for a reading comprehension/question-answering model. Achieved matching scores 12.5% higher than previously attained. Model placed in top 15 in a Stanford AI-based Question-Answering competition with over 400 students.

## SKILLS & INTERESTS

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- **Technical Skills:** Proficiency in Microsoft Office, Python, Java, C++, C, JavaScript, Node.js
- **Language:** English (native), Spanish (limited working proficiency)
- **Interests:** scuba diving, college football, travel hacking, geopolitics