ANDREW CHEN

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EDUCATION

- **Massachusetts Institute of Technology**, Cambridge, MA   Expected Graduation: 2020
  Candidate for Bachelor of Science in Computer Science and Engineering – GPA 4.9/5.0
- **Mission San Jose High School,** Valedictorian, ACT: 35/36
- **Select Coursework**: Software Construction, Computer System Engineering, Performance Engineering, Algorithms, Discrete Math, Probability & Random Variables, Intro to Machine Learning

WORK EXPERIENCE

Addepar, Software Engineering Intern   Jul 2018 – Aug 2018
- Designed and built a distributed caching data service for Addepar's large database tables (>100 GB)
- Improved performance by 4x compared to Addepar's existing non-distributed data service
- Used Java and deployed to production with Kubernetes

NASDAQ, Global Technology Intern & Independent Contractor   Jul 2017 – Dec 2017
- Created a blockchain-based audit system for the traceability and integrity of generic workflows
- Selected by CTO as a focus project for eventual company-wide rollout
- Used Node.js, React, MongoDB, and D3.js

Massachusetts Institute of Technology, Computer Vision Research Assistant   Jan 2017 – Jul 2017
- Implemented and evaluated ways to recognize minimal-information video clips to gain insight on video classification using computer vision and deep learning

University of California, Santa Cruz, Computer Vision Research Assistant   Jun 2014 – Dec 2015
- Developed a novel technique for imaging live tissues using adaptive optics and fast image processing
- Integrated Fourier signal processing to increase image resolution by 2x and imaging depth by 1.5x
- Used C++ and CUDA

SELECT PROJECTS

Optimize My Route   Jul 2018 – Present
- Multistep route optimizer for errands, carpooling, vacation, and general travel planning
- Google Maps integration for places search, different modes of travel, and step-by-step directions

Facebook News Eradicator, Open Source Contribution   Aug 2018
- Added a high-demand feature to the third-party browser extension with 150K users
- Used Typescript and Redux

EXTRACURRICULAR ACTIVITIES

MIT WebLab (6.148), Sponsor Chair   Jul 2018 – Present
- Contributed toward teaching a web development class and organizing a competition over the winter
- Sought out and maintained relationships with corporate sponsors

Lean On Me, Vice President   Sep 2016 – Present
- Utilized Twilio API to introduce new features to the back-end of the SMS peer-support app
- Led campus engagement and handled logistics for events and internal operations

SKILLS

Languages: Python, Java, Javascript, HTML/CSS, C++, MATLAB, CUDA

Frameworks/Other: Git, Node.js, NumPy, OpenCV, Kubernetes, Redux, React

AWARDS

- USA Computing Olympiad, Gold Division (2016)
- Siemens Competition in Math, Science & Technology, National 4th Place (2015)