

# Dean Stratakos

📍 Saratoga, CA | ✉ dstratak@stanford.edu | ☎ (408) 797-4107

## EDUCATION

### STANFORD UNIVERSITY

MS COMPUTER SCIENCE, AI

(exp) Jun 2023

BS COMPUTER SCIENCE, SYSTEMS

Sep 2018 - (exp) Jun 2022

Stanford, CA

GPA: 4.05 / 4.00

Tau Beta Pi member

### SARATOGA HIGH SCHOOL

Aug 2014 - Jun 2018

Saratoga, CA

GPA: 4.71 / 4.00

## LINKS

🌐 Website: [dastratakos.github.io](https://dastratakos.github.io)

🐙 Github: [dastratakos](https://github.com/dastratakos)

🌐 LinkedIn: [dean-stratakos](https://www.linkedin.com/in/dean-stratakos)

## COURSEWORK

Artificial Intelligence

Compilers

Computer and Network Security

Data-Intensive Systems

Machine Learning

- Convolutional Neural Networks
- Deep Learning
- ML Systems Design
- Natural Language Processing

Networking

OS & Systems Programming

Parallel Computing

Probabilistic Graphical Models

Web Applications

## SKILLS

### PROGRAMMING LANGUAGES

Proficient:

Python • C++ • C • Java • JavaScript  
SQL • HTML • CSS • Assembly •  $\text{\LaTeX}$

Familiar:

CUDA • R • Swift • Kotlin • Scala • Go

### TOOLS

Proficient:

NumPy • scikit-learn • PyTorch • AWS  
Unix • TensorFlow • Git • SQLite  
MongoDB (NoSQL) • Android Studio  
Keras • Pandas • Xcode • Expo • React

Familiar:

Microsoft Azure • GCP • Figma

## WORK EXPERIENCE

### CITADEL | SOFTWARE ENGINEERING INTERN, MARKET CONNECTIVITY

Jun - Aug 2021 | New York, NY

- Redesigned the recovery mechanism of the TCP connection between market gateway and market connector nodes on Citadel's internal trading platform.
- Engineered and released solutions for four urgent production issues.

### APPLE | SOFTWARE ENGINEERING INTERN, ADVANCED COMPUTATION GROUP

Oct 2020 - Jan 2021 | Portland, OR (remote)

- Computed per-pixel parallax values for videos shot on iPhone using LiDAR depth data. Developed visual representations using Matplotlib and OpenCV.
- Implemented a homography estimation algorithm to help identify outliers within the "Effect Suggestions" system.

### APPLE | SOFTWARE ENGINEERING INTERN, PLATFORM TRIAGE TEAM

Jun - Sep 2020 | Cupertino, CA (remote)

- Improved the performance, scalability, and maintainability of a machine learning clustering algorithm that groups duplicate kernel panic reports.
- Achieved cluster efficiency ARIs <sup>🔗</sup> of 84-89% for two new data slices.

### QUADRIC <sup>🔗</sup> (STARTUP) | SOFTWARE ENGINEERING INTERN

Jun - Aug 2019 | Burlingame, CA

- Designed the back end for six CNN layers in a C++ based intermediate language on a specialized edge-computing hardware architecture.
- Studied post-training weight quantization to improve inference efficiency.

## TECHNICAL PROJECTS

### PINTOS | CS 140

Jan - Mar 2021 | Language: C

- Implemented threading, user programs, system calls, priority scheduling, and a file system for an instructional operating system.

### FACE MASK DETECTION | CS 229

Nov 2020 | Language: Python | [🐙 GitHub repository](#)

- Built a computer vision model in response to the COVID-19 pandemic.
- Achieved 91% accuracy with ResNet50 architecture and 89% with SVM.

### PHOTO SHARING WEB APPLICATION | CS 142

May - Jun 2020 | Languages: JavaScript, HTML, CSS | [📺 YouTube demo](#)

### WIKIPEDIA QUESTION-ANSWERING | CS 224N

Mar 2020 | Language: Python | [🐙 GitHub repository](#)

- Enhanced Google's ALBERT language model with a custom PyTorch verifier that answers factual questions from Wikipedia passages.
- Achieved 85% F1 accuracy on SQuAD 2.0 challenge <sup>🔗</sup>.

## ACTIVITIES

### STANFORD UNIVERSITY VARSITY TENNIS TEAM | MEMBER

Sep 2018 - present

### STUDENT-ATHLETE ADVISORY CMTE | MEMBER, SOCIAL EVENTS

Sep 2019 - Jun 2021

- Coded a matching algorithm for Athlete Mingle, our latest virtual event. [🐙](#)

### CURIOUS CARDINALS <sup>🔗</sup> | COMPUTER SCIENCE TUTOR, Jan 2021 - pres.