

Dean Stratakos

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EDUCATION

STANFORD UNIVERSITY

MS COMPUTER SCIENCE, SYSTEMS

Sep 2022 - (exp) Jun 2023

BS COMPUTER SCIENCE, AI

Sep 2018 - (exp) Jun 2022

Stanford, CA

GPA: 4.04 / 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

🐙 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 Programming

Probabilistic Graphical Models

Web Applications

SKILLS

PROGRAMMING LANGUAGES

Proficient:

Python • C++ • C • Java • JavaScript
SQL • HTML • CSS • Assembly • \LaTeX

Familiar:

Julia • R • Swift • Kotlin • Scala • Go

TOOLS

Proficient:

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

Familiar:

AWS • 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 \uparrow of 84-89% for two new data slices.

QUADRIC \uparrow (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 \uparrow .

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 \uparrow | COMPUTER SCIENCE TUTOR, Jan 2021 - pres.