

# Dean Stratakos

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## EDUCATION

### STANFORD UNIVERSITY

#### MS COMPUTER SCIENCE, AI

(exp) Jun 2023

GPA: 3.89 / 4.00

#### BS COMPUTER SCIENCE, SYSTEMS

Sep 2018 - Jun 2022

GPA: 4.10 / 4.00

Tau Beta Pi member

### SARATOGA HIGH SCHOOL

Aug 2014 - Jun 2018

GPA: 4.71 / 4.00

Saratoga, CA

## 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  
TypeScript • SQL • HTML • CSS •  $\LaTeX$

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

### APPLE | SOFTWARE ENGINEERING INTERN, SIRI INFORMATION INTEL

Jun - Sep 2022 | Seattle, WA

- Coordinated three new Siri personalization features across five teams.

### 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.

### APPLE | ALGORITHMS R&D 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 🔄.

### 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 📈 of 84-89% for two new data slices.

### QUADRIC 📄 (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.

## TECHNICAL PROJECTS

### CLASSY | CS 194W

Mar - Jun 2022 | Language: TypeScript | 🍏 App Store | ▶️ Play Store

- Built a social education app using React Native frontend and Firestore backend.

### SARCASM DETECTION | CS 224U

May - Jun 2021 | Language: Python

- Trained ALBERT and XLNet NLU models by fine-tuning on the SARC dataset.

### 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

### PHOTO SHARING WEB APPLICATION | CS 142

May - Jun 2020 | Languages: JavaScript, HTML, CSS | ▶️ YouTube demo

## ACTIVITIES

### STANFORD UNIVERSITY VARSITY TENNIS TEAM | MEMBER

Sep 2018 - present

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

Sep 2019 - Jun 2021

- Developed a matching algorithm for Athlete Mingle, a virtual meet-up event. 🔄

### CURIOUS CARDINALS 📄 | CS TUTOR, Jan 2021 - Jun 2022