

Dean Stratakos

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EDUCATION

STANFORD UNIVERSITY

BS IN COMPUTER SCIENCE

Sep 2018 - (exp) Jun 2022

Stanford, CA

GPA: 4.09 / 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)
in LinkedIn: [dean-stratakos](#)

COURSEWORK

Algorithms and Data Structures

Artificial Intelligence

Data-Intensive Systems

Machine Learning

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

Mathematics

- Linear Algebra
- Multivariable Calculus
- Probability

OS & Systems Programming

Probabilistic Graphical Models

Web Applications

SKILLS

PROGRAMMING LANGUAGES

Proficient:

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

Familiar:

Swift • Kotlin • Scala

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 | INCOMING SOFTWARE ENGINEERING INTERN

Jun - Aug 2021 | New York, NY

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[↗] of 84-89% for two new data slices.
- Concepts included agglomerative clustering, tf-idf[↗], and cloud storage.

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.
- Analyzed compile-time and run-time optimizations for a deep learning network.
- Studied post-training weight quantization to improve inference efficiency.

TECHNICAL PROJECTS

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

- Developed a full stack ReactJS web application with a Node.js web server.
- Utilized a MongoDB database and Material-UI front end components.

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[↗].

ACTIVITIES

STANFORD UNIVERSITY VARSITY TENNIS TEAM | MEMBER

Sep 2018 - present

- Balance 20+ hours/week of training as a member of a Division I team ranked in the top 10 nationally with a full academic course load.

STUDENT-ATHLETE ADVISORY CMTE | MEMBER, SOCIAL EVENTS

Sep 2019 - present

- Direct events with 200+ attendees to strengthen student-athlete community.
- Coded a matching algorithm for Athlete Mingle, our latest virtual event. 🐙

CURIOUS CARDINALS[↗] | COMPUTER SCIENCE TUTOR, Jan 2021 - pres.