Dean Stratakos

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

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
in LinkedIn: dean-stratakos

COURSEWORK

Artificial Intelligence
Compilers
Computer and Network Security
Linear Dynamical 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 ⬀ 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.
   • 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 ⬀.

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 ⬀ | Computer Science Tutor, Jan 2021 - pres.