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
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 between market gateway and market connector nodes on Citadel's internal trading platform.
- Collaborated with traders to respond to several 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.