Dean Stratakos

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

EDUCATION

STANFORD UNIVERSITY
BS in Computer Science
Sep 2018 - (exp) Jun 2022
Stanford, CA
GPA: 4.09 / 4.00
Tau Beta Pi candidate

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

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 2021 - 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, Panic 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 - Dec 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.