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

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
Computer Organization & Systems
Machine Learning
- Convolutional Neural Networks
- Deep Learning
- Natural Language Processing

Mathematics
- Linear Algebra
- Multivariable Calculus
- Probability

Web Applications

SKILLS

PROGRAMMING LANGUAGES
Proficient:
Python • C++ • C • Java • JavaScript
HTML • CSS • Assembly • LaTeX
Familiar:
Swift • Kotlin

TOOLS
Proficient:
NumPy • scikit-learn • PyTorch • Unix
TensorFlow • Git/GitHub • SQLite
MongoDB (NoSQL) • Android Studio
Familiar:
AWS • Microsoft Azure • Pandas

CLUBS AND INTERESTS

Stanford Christian Students • Surfing
Golf • Volunteering • Saturday Night Live

WORK EXPERIENCE

APPLE | Software Engineering Intern, Advanced Computation Group
Oct 2020 - Present | Portland, OR (remote)

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 grouped duplicate kernel panic reports.
- Achieved cluster efficiency ARIs of 84-89% for 2 new panic signatures on iOS, macOS Apple Silicon, and macOS Intel.
- Concepts included agglomerative clustering, tf-idf, and cloud storage.

QUADRIC (startup) | Software Engineering Intern
June – Aug 2019 | Burlingame, CA
- Implemented the back end for 6 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

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.

OPTIMIZED TASK SCHEDULING PROJECT | CS 221
Nov - Dec 2019 | Language: Python | GitHub repository
- Created a reinforcement learning model using value iteration and Q-learning to optimize revenue and customer satisfaction for service-based businesses.

PAC-MAN AND AUTONOMOUS CAR ASSIGNMENTS | CS 221
Nov 2019 | Language: Python
- Implemented pathfinding algorithms to dictate optimal actions in various maps.
- Concepts included minimax, alpha-beta pruning, and Bayesian Networks.

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 100+ attendees to strengthen student-athlete community
- Maintain open communication between administration and student-athletes

ABACUS AT JIN'S MENTAL ARITHMETIC ACADEMY
2007 - 2018
- Learned to use the abacus – a Japanese tool for fast mental math calculations.
- 1st place in Mental Dictations at the international level | 2015, 2016, 2017.