John Merriman Sholar

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EDUCATION

Stanford University, Stanford, California   Sep 2014 - Present
  Bachelor of Science in Computer Science, Concentration in Artificial Intelligence
  GPA: 3.93

Kwajalein High School, Kwajalein, Republic of the Marshall Islands   Aug 2010 - May 2014
  Valedictorian; GPA: 4.000; ACT: 36; SAT: 2380

WORK & LEADERSHIP EXPERIENCE

Citadel LLC, Software Engineering Intern, Global Fixed Income Team   Jun 2016 - Sep 2016
- Designed and implemented desktop application and complementary financial server to display proprietary metrics for over 300 Eurodollar future financial instruments, with to-the-second accuracy for team of over 50 fixed-income investment strategists.
- Developed knowledge of quantitative finance, fixed income investment, and other related fields through interaction with employees and intern tutorials.

Quantcast Corporation, Software Engineering Intern   Jun 2015 - Sep 2015
- Designed and implemented full-stack web application to enable team to view real-time status of over 20 services on over 1000 machines in 12 international datacenters.
- Enabled team of 23 employees to address technical issues collaboratively by integrating with JIRA issue-tracking software.

Stanford University, Computer Science Section Leader   Sep 2015 - Present
- Served as teacher and mentor for 10 - 12 students in introductory computer science classes. Taught weekly sections, led office hours, and graded assignments and exams.

INDEPENDENT PROJECTS

Predicting Media Bias in Online News, Machine Learning Capstone Project   Mar 2016 - Jun 2016
- Personally curated dataset of 160,000 news articles about the Israel-Palestine conflict.
- Utilized modified Multinomial Naive Bayes and SVM classification algorithms to determine title keywords most indicative of 20 different international news outlets.
- Utilized K-Nearest-Neighbors algorithm to group news outlets based on title keywords.
- Results provide insight into selection, linguistic, and other biases in international news.

Court SMS, Code the Change (Philanthropic Programming Projects)   Jan 2015 - Jun 2015
- Lowered rates of court absence in Santa Clara county by implementing a web interface allowing courts to schedule text messages to remind citizens of their court dates.

COURSEWORK & TECHNICAL SKILLS

Completed Coursework:
  Machine Learning, Probability and Statistics, Design and Analysis of Algorithms, Linear Algebra,
  Vector Calculus, Computer Organization and Systems, Teaching Computer Science,
Upcoming Coursework:
  Artificial Intelligence, Natural Language Processing, Linear Dynamical Systems, Convex Optimization,
  Cryptography, Computer Security, Operating Systems, Compilers, Databases, Networking
Software Engineering Skills:
  Languages: Python (Proficiency), Java, C++, C#, C, JS/HTML/CSS, SQL, MATLAB (Working Knowledge)
  Packages: SciKit-Learn, NumPy, SciPy (Python Math and Machine Learning), Flask (Python Web)
  Development Tools: LINUX, OS X, and .NET Development Environments, Git

HONORS

- Eagle Scout, Boy Scouts of America
- Presidential Scholar, Department of Education Presidential Scholars Program
- National Merit Scholar, National Merit Scholarship Program
- Student Leadership Exchange Scholar, National Committee on United States-China Relations
- Boothe Prize for Excellence in Freshman Year Writing, Stanford University

HOBBIES