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.

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: Fluent imperative programmer, working frequently in Python, but language agnostic
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

Competitive Swimming, Musical Theater, Creative Writing (Fiction and Poetry), Jeopardy, A Cappella Music