

# JOHN MERRIMAN SHOLAR

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## EDUCATION

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- 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

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- 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

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- 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

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- 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:**  
*Interests:* Machine Learning, Artificial Intelligence  
*Languages:* Fluent imperative programmer, working frequently in Python, but language agnostic  
*Development Tools:* LINUX, OS X, and .NET Development Environments, Git

## HONORS

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- 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

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