

Sam Ford

Georgia Institute of Technology
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39W216 Weaver Lane
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OBJECTIVE

A full-time data science/software engineering position for the spring of 2018

EDUCATION

Georgia Institute of Technology

Candidate for *Bachelor of Science* in Computer Science with a minor in Economics
Concentration in Artificial Intelligence and Modeling/Simulation

Cumulative GPA: **3.68**

Oxford University – Worcester College

Georgia Tech Study Abroad Program

Marmion Military Academy

Cumulative GPA: **4.31**

Atlanta, GA

August 2013 – December 2017

Oxford, England

June 2016 – August 2016

Aurora, IL

August 2009 – May 2013

EXPERIENCE

Qualcomm Software Engineering Intern

May 2017 – August 2017

- Worked on the modem team designing protocols for making data calls
- Created tools using python to analyze and compare unit test results
- Gained experience and insight into the 5G evolution
- Collaborated with a fifteen-person team to diagnose and solve issues
- Finalist in the 200+ intern hackathon creating a room utilization website

Computer Science Research at Georgia Tech

March 2015 – Present

- Created visualization framework for anomaly detection and published “Scalable Architecture for Anomaly Detection and Visualization in Power Generating Assets.” The paper was presented at The 3rd IEEE International Workshop on High-Performance Big Data Computing (HPBDC, at IPDPS 2017), May 29, 2017, Orlando, Florida
- Discovered class sequences typically taken by students at Georgia Tech with datamining algorithms and created a web application for administrators to suggest classes to students
- Set up a Hadoop/Spark cluster with hundreds of servers for distributed computing, machine learning, and anomaly detection
- Worked under the direction and mentorship of Polo Chau

Lean Basketball Analytics

December 2014 – March 2016

- Basketball analytics startup used by North Carolina, Stanford, Michigan State, Georgia Tech, and several other colleges
- Created a web-scraping suite to automatically process data from the official NCAA website
- Implemented stat recording framework for real-time, in game use

Norfolk Southern Software Engineering Intern

August 2014 – December 2014

- Created a process for tracking users and train crews
 - Designed and implemented a system to manage the status of Norfolk Southern employees
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ACTIVITIES & LEADERSHIP

Georgia Tech Men's Lacrosse

August 2013 – Present

- Finished season 19-1 and currently ranked 3rd in division 1 Men's Collegiate Lacrosse Association
- Made it to the Final Four, spring 2016, 2017

Tau Kappa Epsilon Fraternity

August 2013 – Present

- Chapter Hypophetes – 3rd ranking member of the fraternity
 - Duties include counseling fraternity members in their academics and leading the new member scholarship committee
 - Preside over weekly chapter meetings in absence of the president and vice president
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RELEVANT COURSE TOPICS

Machine Learning, Knowledge Based Artificial Intelligence, Data and Visual Analytics, Psychology of Sensation and Perception
Data and Visual Analytics, Data Structures and Algorithms, Algorithm Design and Analysis, Automata and Complexity Theory
Discrete Math, Combinatorics, Graph Theory, Differential Equations, Multivariable Calculus, Probability and Statistics
High Performance Parallel Computing, Computer Systems, Networking, Computer Organization, Digital System Design
Machine Learning for Finance, Economic and Financial Modeling, Econometrics, Advanced Macroeconomics

SKILLS/AWARDS/INTERESTS

Programming: JavaScript (Expert), Java (Proficient), Python (Proficient), C (Proficient), C++ (Proficient), Scala (Proficient), SQL (Proficient), MATLAB (Experienced), Haskell (Experienced), R (Experienced), Ruby (Prior Experience)

Software and Platforms: Android, Windows, Unix, Spark, Hadoop, Tensorflow, Caffe, Jupyter/IPython, Pandas, AWS, Azure, Tableau

Website Development: HTML, CSS, React, Angular, Node, Express, Flask, D3, MongoDB, Spring

Awards: Dean's List – 11x, Faculty Honors, Alex Kiehl Lacrosse Scholarship, Academic All-American (High School Lacrosse)

Interests: Traveling, Lacrosse, Fitness, Golf, Watching sports