Conrad Stansbury

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OBJECTIVE

To obtain a summer research position or internship in software engineering with particular interest in data analyis, systems, and multidisciplinary problems.

EDUCATION

Stanford University GPA 3.98/4.0
Pursuing a B.S. with Honors in Physics, concentration in theory, expected **6/2015**

COMPUTER SKILLS

Proficient C{++}, Python, Clojure, UNIX, LaTeX, ROOT
Working Knowledge Ruby, Haskell, HTML/CSS, JavaScript, Mathematica/Matlab

COURSEWORK

Computer Organization and Systems, Algorithms, Optimization and Graduate Algorithms, Data Mining, Data Mining for Network Security, Linear Dynamical Systems, Convex Optimization (Series)

EXPERIENCE

Research Intern, SLAC National Laboratory   June 2013–Present
Working with the ATLAS group contingent at SLAC on two data analysis projects to improve resolution of experiments conducted at the LHC. From June 2013 to this past June, worked on investigating the applicability of machine learning techniques to jet finding and developed a tagging scheme competitive with other state-of-the-art techniques.
Most recently, my research has been into using mixture modeling as a jet finding technique. Aside from the physics, this has involved writing around 10k lines of algorithmic C++ to conduct and automate the anlyses.

Analysis Intern, Mobile Posse,   June 2011–Sep 2011
Performed data analysis for a small startup to help them better understand customer turnover. Also proposed and designed an automated analysis and alert framework which would allow monitoring of their hundreds of different device platforms.

PROJECTS

Chess Engine Designed and built a (rather weak, for the moment) chess engine in C as a way of exploring my hobby for chess and understanding how systems level languages can be leveraged to build complex applications.

Web Server Currently writing web server from the ground up using Haskell + CSS/JS to learn about web technologies in a holistic way and to host a website for completed and ongoing projects, research, contact information, public documents, and papers. In the meantime, you can find me and the source at my GitHub.

ACTIVITIES + INTERESTS

Hiking, running, writing short stories, cooking, category theory