AlfredXue

Software Engineer

about

436 Mayfield Avenue
Stanford CA, 94305

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alfredxue.me

languages

English
Conversational Chinese

programming languages

C/C++
Java
Python
Ruby

coursework

Beyond Worst Case Analysis
Optimization Paradigms
Advanced Topics in Networking
Operating Systems
Machine Learning

objective

Alfred seeks a systems related internship opportunity where he can build powerful distributed systems and learn modern production paradigms.

skills

Alfred has both coursework and indsutry experience in distributed systems design and has a strong theoretical background in algorithm design and analysis.

education

2013-2017 **Bachelor's of Science** candidate in Computer Science — Stanford University
Theory track
GPA 3.7/4.0

2009-2013 **Graduate** — Hamilton High School
Rank 5/800
GPA 4.0/4.0
SAT 2310/2400

experience

06-09 2015 **Quantcast, San Francisco, CA** — Software Engineer Intern
Developed a file transfer system to support terabytes of data and hundreds of machines. Worked with development tools including Puppet and Jenkins.

06-09 2014 **TCL Research America, San Jose, CA** — Software Engineer Intern
Worked on video aliginment software.

06–08 2013 **ASU Biodesign Lab, Tempe, AZ** — Research Internship.
Analyzed the results from the STAR*D depression study.

projects and awards

2015 **TCP Shrew Attack Reproduction** — alfredxue.me/TCP.html
Reproduced a denial of service attack that takes advantage of the built in RTO in certain TCP implementations.

2014 **LOL dreams**
Worked on a (now defunct) website that analyzed League of Legend games to recommend champions to play given champions already seelcted by your team.

2012 **ISEF finalist**
Created a mathematical model of a global virus outbreak using a stochastic time-based method to find the direction of spread of the disease and test the efficiency of quarantines
Won local awards including the Grand Prize and Army award at the Arizona Science and Engineering Fair

2012 **Arizona State Math Contest Winner**
Placed first in the AATM Arizona State Math Contest