

Yan Zhao

OBJECTIVE	Backends engineer dedicating to deliver reliable, performant and scalable applications.	
CONTACT INFORMATION	5648 Bay Street, Apt 701, Emeryville, CA 94608 yanzhao.me	(626)257-6432 zhaoyan1117@berkeley.edu
EDUCATION	University of California, Berkeley August 2011 – present <i>B.S. in Electrical Engineering and Computer Science</i> <i>GPA/Technical GPA: 3.82/3.82</i> <i>Expected graduation date: May 2014</i> <i>Recruited into <u>Eta Kappa Nu</u> during sophomore year</i> <i>Selected Coursework: Data Structure · Machine Structure · Communication Networks · Algorithm · Artificial Intelligence · Computer Graphics · Operating System · Computer Architecture · Database Systems · Software Engineering</i>	
WORK EXPERIENCE	University of California, Berkeley August 2013 – Present <i>Course Staff</i> <i>Reader of CS184 - Foundations of Computer Graphics</i> · Reviewing and grading students homework and projects. · Creating automatic script for grading and reviewing purposes.	
	The Aspire Lab - Berkeley August 2013 – January 2014 <i>Research Assistant</i> <i>SEJITS related projects led by Professor Armando Fox</i> · Working on integrating Three Finger Jack, a python specializer, with current Asp (A SEJITS Implementation for Python) framework. · Running Apache Spark on Amazon EC2 computers.	
	GoDaddy.com, LLC May 2013 – December 2013 <i>Software Developer Intern</i> <i>Web developer with Ruby on Rails - working on E-commerce platform</i> · Modified and updated a database routing library for multi-tenancy web application. · Participated in the implementation of internal Single Sign-on system for the web application. · Override ActiveRecord 3.2.14 for thread safety in the situation of multi-threads app server. · Evaluated open source e-commerce frameworks including Spree with Rails, Oscar with Django, and BroadLeaf with Spring.	
	University of California, Berkeley August 2012 – May 2013 <i>Course Staff</i> <i>Reader of CS61A - The Structure and Interpretation of Computer Programs</i> · Evaluated and advised students' homework and projects on style and correctness. · Group graded student's exams with other course staffs. · Coached students in code writing and composition style during office hours. · Communicated with course staffs about student's feedbacks.	
SELECTED PROJECTS	Global Illumination Renderer and Physically-based Cloth Simulation in C++ <i>Dual Project as final design for CS 184 Computer Graphics</i> · Combines direct illumination, indirect illumination, and caustic to achieve global illumination. · Supports axis-aligned bounding boxes tree to accelerate the render speed to log asymptotically fast. · Supports various visual effects including Phong Shading, Depth of Field, Reflection and Refraction. · Simulates stretching/sheering force with energy condition and bending force with edge spring. · Implements sphere and cube collision detection/correction, as well as effects of aerodynamic force. · Showcase: yanzhao.me/project/raytracer & yanzhao.me/project/clothsim	
TECHNICAL SKILLS	Other Projects: · SimpleDB - A database management system supporting SQL and concurrency control with <i>Java</i> . · PeakDemand - SaaS to record future demands for resources to help scheduling with <i>Ruby on Rails</i> .	
	Proficiency in C++, C, Java, Python, Ruby, Rails, HTML, CSS, SQL, Agile Methodology. <u>Experience</u> in OpenMP, OpenGL, OpenCV, Maya, Objective-C, JavaScript, jQuery, Scala, Hadoop.	