Katherine Chao

phone **(916) 529 2759**   *email* **kchao1994@berkeley.edu**
website **katherinechao.com**   *github* **kchao1994**

EDUCATION

University of California, Berkeley
B.A. Computer Science, expected May 2016; GPA: 3.4

SKILLS

Languages: Python, PHP, Java, Javascript, C, C++, HTML, CSS, SQL
Frameworks: Django, Symfony2, Play, Backbone.js, Wordpress
Tools: Git, Amazon Web Services

WORK EXPERIENCE

Software Engineering Intern at CourseHero (June 2015 – August 2015)   *Redwood City, CA*
- Worked on both the backend and front end of the public facing site using Symfony2
- Tasks included optimizing webpages for better performance, creating new content, and bug fixes

Web Developer Intern at Binwise (June 2014 – August 2014)   *San Francisco, CA*
- Created web pages in Play/Scala, Backbone Marionette, and a customized Wordpress backend
- Set up and securely configured Amazon EC2 and RDS instances on which the site now runs

Website Assistant at UC Berkeley (May 2013 – May 2014)   *Berkeley, CA*
- Edited web pages, formatted content and migrated website content using Drupal CMS

PROJECTS

Personal Artwork Website (www.silver-islands.com)
- Started in 2006 and built using Django and PostgreSQL; still in development
- Features include a fully featured image gallery and the ability to comment on articles

Word Co-Occurrence Calculator using MapReduce
- A map reducer written in Java using Hadoop that parses a text file and calculates the cumulative co-occurrence of each word

Pacman Search
- Programmed an intelligent search agent in Python to achieve optimal solutions for different goals
- Problems included creating appropriate search heuristics, implementing min-max agents, and particle filtering simulation for hidden ghosts

Raytracer
- Renders images in 3D from a given a list of objects and light sources
- Written in C++, features include shadows and reflections

COURSEWORK

- Algorithms
- Artificial Intelligence
- Image Processing
- Operating Systems
- Computer Architecture
- Databases
- Computer Graphics

ACTIVITIES AND HONORS

Member of Upsilon Pi Epsilon Computer Science honor society (August 2013 – present)
- Membership extended to the top 30% of Computer Science students
- Former member of the IT committee, helped remake the UPE website from scratch (**upe.berkeley.edu**)

UC Berkeley Dean's Honors List (August 2012 – May 2013)
- Awarded to the top 4% of the College of Letters and Science's students