

# KRISTINE CHEN

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## EDUCATION

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### UNIVERSITY OF CALIFORNIA, BERKELEY

Cumulative GPA: 3.3

Major: B.S. Electrical Engineering and Computer Science (EECS)

Relevant Coursework: Communication Networks | Programming Languages | Algorithms | Operating Systems | Artificial Intelligence  
Data Structures | Machine Structures | Cloud Computing and Distributed Systems

## PROFESSIONAL EXPERIENCE

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### UC BERKELEY | RSSP-IT / Residential Computing / SAIT

May 2011 – Present

Senior Programmer

Berkeley, CA

- Currently implementing a conference management solution in Django for summer conferences
- Hired and mentored four new programmers, introducing them to the SAIT systems and technologies
- Supervises coworkers on projects and software engineering best practices as one of two technical leads for the team

### UC BERKELEY | EECS Department

Jun 2011 – Aug 2011

Undergraduate Student Instructor, Data Structures

Berkeley, CA

- Educated students about object-oriented programming, data structures, runtime analysis and sorting algorithms
- Aided the lecturer in creating discussion materials and writing exams

### UC BERKELEY | RSSP-IT / Residential Computing

Apr 2010 – Apr 2011

Programmer

Berkeley, CA

- Developed and maintained web applications written in Perl that source data from PostgreSQL databases for use by internal RSSP-IT teams as well as dormitory residents
- Integrated the RSSP-IT internals systems with the campus authentication system using Single Sign-On and a secure cookie-based session management system

## PROJECTS

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### CONFERENCE MANAGEMENT

Jun 2011 – Present

Django

Berkeley, CA

- Currently developing a conference management solution using Django and PostgreSQL for use by SAIT internal teams and external conference guests to manage summer conferences
- Includes the ability to view and edit conference details, custom authentication for conference guests and administrators, and integration with existing applications dealing with security cases
- Met with various clients to discuss use cases and feature requests and set development milestones

### PYTHON COMPILER

Feb 2011 – May 2011

C++, Horn

Berkeley, CA

- Designed a parser and lexer as well as a semantic analyzer and a code generator for a subset of Python2.5
- Generated x86 machine code with small optimizations for a given Python program

### CAS AUTHENTICATION

Jun 2010 – Nov 2010

Perl

Berkeley, CA

- Replaced the old ResComp Authenticator with the AuthCAS Single Sign-On authentication module for RSSP-IT internals systems
- Implemented with an authorization method that relies on retrieving employee data from a PostgreSQL database

## ACTIVITIES

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### DIRECTOR, WEBSITE COMMITTEE

(Previously officer of Website committee and Marketing committee)

- Currently migrating the UC Berkeley IEEE's outdated website to a new website written in Ruby on Rails

## SKILLS & INTERESTS

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Languages: Java, Python, Perl, C, C++, Scheme, Ruby, HTML/CSS, PostgreSQL

Frameworks: Django, Rails

Tools: git, svn

Operating Systems: Microsoft Windows, \*nix

Interests: Web design and development, oil painting, Haruki Murakami novels