

CHUREN (CHU) SHAO

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OBJECTIVE

To increase my experience in the software engineering field of computer science.

EDUCATION

UC San Diego Computer Science B.S. • Expected Graduation in 2014

Related Coursework:

- Programming Languages: Principles & Paradigms
- Principles of Operating Systems
- Design & Analysis of Algorithms
- Computer Organization & Systems Programming
- Introduction to Programming with MATLAB
- Compiler Construction
- MATLAB for Experimental Research
- Software Engineering
- Advanced Data Structures
- Introduction to Theory of Computability
- Mathematics for Algorithm & Systems
- Basic Data Structures & Object Oriented Design
- Ubiquitous Computing
- Digital Systems and Design

TECHNICAL SKILLS

- **Programming Languages:** PHP · Python · Javascript · Java · Ruby · MATLAB · Shell Script · C · C++ · Ocaml · Scala
- **Web Software & Frameworks:** Symfony2 · Node.js · Express · jQuery · Flask · Django · Sinatra · Ruby on Rails · Zend
- **Databases:** Oracle Database 11G · MySQL · PostgreSQL · CouchDB
- **Servers:** Apache · Nginx · Lighttpd
- **Management Tools:** Jenkins · Chef · Intermapper · Infoblox · Cacti · Solarwinds Orion · Vagrant

PROJECTS

Humanitarian Engineering Project - We Have We Need - UC San Diego - www.wehave-weneed.org

(Jan 2013–Present)

- Created an inventory sharing system that support NGOs operating in disaster areas.
- Utilized a variety of web frameworks including Django, Sinatra, Flask, and Node.
- Developed leadership skills by leading a small team in writing backend monitoring tools.

Gradesource Uploader - Personal Project

(Dec 2012–Jun 2013)

- Created tools for easier management of Gradesource, a course management system used by the CSE department.
- Coded with Python as a backend to simplify mass-uploading grades to Gradesource.
- Familiarized myself in designing applications based on a user point of view.

Crossfit Workout Project - UC San Diego

(Mar 2012–Jun 2012)

- Built a web app that allows Crossfit users to keep track of their workout statistics.
- Used Ruby on Rails framework for the website and created an authentication system using OAuth and Facebook.
- Gained experience in working under Agile development and learned MVC through designing a web application.

WORK HISTORY

CBS Interactive - Software Engineer Intern

(Jun 2013–Sept 2013)

- Replatformed a popular CBS Interactive website onto a new internal content and audience management system.
- Coded in various industry standard languages, including Symfony2 PHP, Twig, HTML5 and Javascript.
- Gained experience in managing and fixing bugs, optimizing Solr search indexer and working on a web stack.

UC San Diego - CSE Head Tutor

(Jan 2013–Mar 2013)

- Head Tutor for CSE 3, a course designed to develop computational analysis and thinking skills of non-CS students.
- Work with the professor in managing a class of over 200 students.
- Lead labs, managed grades, and provided guidance in computational comprehension.

BlueHornet/Digital River - Software Engineer Intern

(Jun 2012–Sept 2012)

- Summer internship focused on adding a custom number field for utilization in the Blue Hornet email application.
- Programmed in PHP and worked with Zend framework, front-end UI and Oracle 11g Database.
- Implemented a feature that is used to send personalized data to millions of subscribers.

Ocean Observatories Initiative - Systems and Network Support

(Jun 2011–Oct 2013)

- Manage a network of over 50 different virtual servers through monitoring tools and shell scripting.
- Work with various levels of systems operations including hardware diagnosis and hypervisor management.