

CHUREN (CHU) SHAO

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OBJECTIVE

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

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 (Spring 2013)
- Software Engineering
- Advanced Data Structures
- Introduction to Theory of Computability
- Mathematics for Algorithm & Systems
- Basic Data Structures & Object Oriented Design

TECHNICAL SKILLS

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

Integrating FPGA with Intel Atom Project - UC San Diego

(Jan 2013–Present)

- Research project focused on integrating a Field Programmable Gate Array (FPGA) as a coprocessor with a CPU.
- In progress of coding a framework to accelerate applications by passing processes to FPGA.
- Learned the efficiency and benefits of FPGA and implemented Canny's Edge Detection Algorithm.

Gradesource Uploader - Personal Project

(Dec 2012–Present)

- 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–June 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

UC San Diego - CSE Head Tutor

(Jan 2013–Present)

- 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

(June 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

(June 2011–Present)

- 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.