

CHENYANG YUAN

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<http://www.github.com/yuanchenyang> <http://www.chenyang.co>

EDUCATION

Double Major in Computer Science and Physics

The University of Berkeley at California, Berkeley, CA

Expected Graduation: 2016

GPA: 3.939 (Technical: 4.00)

TECHNICAL SKILLS

Proficient in Python, Haskell, Java, C, Javascript, \LaTeX , Emacs

Experience in Rust, Scheme, jQuery, HTML, Hadoop, Android, SQL, Assembly

WORK EXPERIENCE

Undergraduate Student Researcher, UC Berkeley

Spring 2014 – Present

- I work with Professor Ras Bodik on the synthesis of a layout engine for an experimental browser, Servo. We specify CSS layout rules with an attribute grammar which compiles into a layout engine that takes in HTML and CSS and outputs the positions and sizes of every element. This layout engine, generated in Rust, then fits into the Servo browser.

Undergraduate Student Instructor for CS61A, UC Berkeley

Fall 2013 – Present

- Teach sections and labs, holds office hours
- Help write the autograder for projects
- Wrote Javascript interpreters for Scheme and Logic languages used in the class, so that students can interpret code on their browsers without installing interpreters on their machines.
- Ran and maintained the codereview system used to give students composition feedback from readers

Software Engineering Intern, Clover

July–August 2013

- Helped improve internal tools
- Built an API auto-documentation system; designed and build an API Explorer:
https://www.clover.com/api_explorer
- Created demo app using Clover's API: <https://github.com/clover/example-server>

SELECTED PROJECTS

Facebook Group Archiver

<http://archiver.chenyang.co>

A tool for saving Facebook groups in a local database and doing comprehensive searches locally. After the first download, it will sync the local database with the Facebook group during each run. Also includes a web-interface for stats, searching and doing database queries.

Interactive SICP Textbook

<http://xuanji.appspot.com/isicp/1-1-elements.html>

Made an interactive version of the classic Structure and Interpretation of Computer Programs book with my friend. I created the asynchronous Javascript-based Scheme interpreter used on the website.

WebGL Particle Simulator

<http://www.chenyang.co/particles>

A simulation with thousands of particles attracted by gravity, created with WebGL and Javascript.

Python Control Flow Visualizer

<http://pyvisualizer.chenyang.co>

An online tool that run python programs and visualize the code branching using D3.js

RELEVANT AWARDS

First Place, Cal vs Stanford Big Hack

Apr 2013

Created a scheme interpreter in C on my TI-89 graphing calculator

Third Place, Hackers at Berkeley HackJam

Apr 2013

Made an animation sequence on my TI-89 graphing calculator

Honorable Mention, Facebook Nor-Cal Hackathon 2013

Oct 2013

Built a online Python code branching visualizer.

Honorable Mention, Facebook Battle of the Bay Hackathon 2012

Oct 2012

Build a logic gate simulator with a graphical interface in Python.

Rank 15, Hackerrank Back to School Hackathon 2013

Feb 2013