

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, Javascript, Java, C, L^AT_EX, Emacs

Experience in Rust, Scheme, jQuery, d3, 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. I helped built a backend which generates a layout engine in Rust, which replaces the hand-written layout engine in Servo. I am also working on writing a synthesis algorithm for incremental layout schedules, implemented in Rosette, a domain specific language for interfacing with SAT/SMT solvers.

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

