JOEL CHEN XI GRAYCAR

www.jgraycar.com jgraycar@berkeley.edu (650) 296-4402

EDUCATION

University of California, Berkeley (Class of Spring 2016) - Bachelor of the Arts, Computer Science

EXPERIENCE

Data Analysis Intern, DecisionNext (Summer 2013)

- Worked with startup team looking to advise companies on investment strategies by offering big-data analysis software on the cloud.
- Pulled market data from online government databases, wrote script to convert text reports to more useful CSV format.
- Analyzed data to determine trends between multiple variables for various markets.

Student Web Applications Programmer, Berkeley Law School (Summer 2014 - Present)

- Contributed to student portal website **CalCentral**, used by all of Berkeley's 35,000 students.
- Studied and familiarized myself with existing open-source application codebase, implemented using Ruby on Rails and AngularJS.
- Utilized UC Berkeley APIs to pull in student and campus information.
- Developed new routing and conditional logic to present law school users with specialized information.

PROJECTS

Cal Raijin Taiko Website - http://www.caltaiko.org (Summer 2014):

- Full-stack developer of new fully-responsive website for campus student group, using Ruby on Rails and Zurb Foundation framework.
- Utilized numerous gems to add advanced functionality, including administrative privileges for registered users and image upload directly to AWS S3 bucket.
- Employed test-driven development process, using RSpec tool for extensive unit testing.

Encoder (Spring 2014):

- Applied concepts of modular arithmetic to develop symmetric-key encryption algorithm.
- Created Java desktop application to apply algorithm at the byte level, allowing encryption / decryption of inputted files, with GUI implemented using Java Swing.
- Applied industry standard build tools, including Apache Ant, Apache Maven, and Gradle.

COURSES

STAT 134: Concepts of Probability (Spring 2014)
STAT 133: Concepts in Computing with Data (Summer 2014)
MATH 116: Cryptography (Fall 2014)
CS 170: Efficient Algorithms and Intractable Problems (Fall 2014)
CS 188: Artificial Intelligence (Fall 2014)

https://github.com/greytoyota https://www.linkedin.com/in/jgraycar