JOEL CHEN XI GRAYCAR

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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 market trends, relationship between average weight and average price 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 codebase.
- Utilized UC Berkeley APIs to pull in student and campus information.
- Developed new routing and conditional logic to present law school users with unique, more relevant information.

PROJECTS

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

- Sole developer of new website for campus student group, using Ruby on Rails.
- Utilized numerous gems to add advanced functionality, including edit permissions for registered users, image upload directly to AWS S3 bucket, and nested forms for direct declaration of nested resources.

Encoder (Spring 2014):

- Utilized ideas of modular arithmetic to develop reversible encryption algorithm.
- Created Java application to encrypt / decrypt files by manipulating and shifting bytes.
- Independently studied use of and implemented Java GUI using Java Swing toolkit.
- Studied use of industry standard build tools, including Apache Ant, Apache Maven, and Gradle, to automate build process for creation of Mac OS X executable app file.

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)

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