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# Roland Chin

Cal '21 - Data Science / Computer Science

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Responsible and organized, able to see the bigger picture and plan accordingly. Seeking an internship to build and apply my coding skills to real world applications.

## EDUCATION

### UC Berkeley - Courses

- The Foundations of Data Science
- Structure & Interpretation of Computer Programs
- Discrete Mathematics & Probability Theory
- Principles & Techniques of Data Science
- Efficient Algorithms and Intractable Problems
- Statistical Methods in Data Science
- Designing Information Devices & Systems I
- Data Structures
- Probability for Data Science

**Milpitas High School** - class rank 4/750, AP Scholar With Distinction, National Merit Commended

## EXPERIENCE

### Project ATMA, AI Startup Internship

*August 2018 - Present*

- Working with a team of Berkeley graduates and students to create an AI platform that can automatically call 911 through real-time analysis of security camera footage
- Collecting videos of emergency footage to train ATMA to recognize such situation with TensorFlow, Google Cloud Platform, and Computer Vision

### City of Milpitas - Lifeguard & Swim Instructor

*June - August 2015, 2016, 2017,*

*2019*

- Taught private and group swim lessons, as well as pre competitive swim team
- Assisted in training of new lifeguards in practice scenarios and emergency rescues

### Milpitas High School Varsity Swim Team Captain

*June - August 2016*

- Helped host swim meets at our high school pool
- Planned swimmers' events and lead morning practices and banquets

## TEACHING / VOLUNTEERING

### Statistics Undergrad Student Association: Education Committee

*September 2018 - Present*

- Created material for a DeCal (student run course) on data analysis, specifically for Kaggle
- Hosted and taught programming workshops

### Academic Intern / Beta Tester: Foundations of Data Science

*January 2018 - Present*

- Assisted GSI with questions and labs, homework, and projects
- Created and shared comprehensive course notes with all students
- Assisted Berkeley MOOCLab with EdX online course launch as beta tester

### Tzu Chi Math Tutoring Coordinator

*August 2016 - June*

*2017*

- Tutored students in math, leading to grade improvement and principal acknowledgement
- Managed and arranged tutors whose skills best fit with certain students

### City of Milpitas Library Head Volunteer

*June - August*

*2015, 2016*

- Managed the reading records of students for 8 elementary schools
- Helped organize and publicize poetry slams, reading fairs, giveaways, and movie events
- Oriented new volunteers in library tasks

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## PROJECTS

### Decryption with Markov Chains

March 2019

- Created a decoder using transition matrices and bigrams to decrypt a text encrypted by substitution
- Implemented the Metropolis algorithm in Python utilizing the decoders

### Spam/Ham Email Classification

November 2018

- Used multiple linear regression, feature engineering, logistic regression, and cross validation to classify emails with an accuracy of 95% on Kaggle
- Cleaned the data prior
- Utilized a word cloud to visualize the most common words

### NYC Taxi Ride Project

October 2018

- Used SQL to explore a NYC taxi dataset, visualized trip patterns throughout the week as well as collision frequencies
- Created a regression model to predict duration of a taxi ride based on tolls, fares, and duration, among other features, with a result of being off by approx. 3 minutes on trips of avg length 12 mins

### Trump's Tweets Evaluation

December 2018

- Utilized the Twitter API to analyze Trump's favorite times to tweet, which phone he prefers, as well as the overall sentiment trends over time in relation to his election
- Mainly involved data cleaning

### Calhacks 5.0 Project - Caesarian Cipher using Rise API

September 2018

- Created a basic Caesarian cipher using the rise API to encrypt/decrypt text, UX primarily