
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 to build my coding skills and involvement in community.

EDUCATION

UC Berkeley - Courses

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

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

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

City of Milpitas - Lifeguard & Swim Instructor

June - August 2015, 2016, 2017

- 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

TEACHING

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

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 feature engineering, logistic regression, and cross validation to classify emails with an accuracy of 95%
- Utilized a word cloud to visualize the most common words

Calhacks 5.0 Project - Caesarian Cipher using Rise API

September 2018

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

VOLUNTEERING

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