

Jacky Lee

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Education

Harvey Mudd College

B.S., JOINT MAJOR IN COMPUTER SCIENCE AND MATHEMATICS | TOTAL GPA 3.93 | MAJOR GPA 4.00

Claremont, CA

Dec 2019

- Deep Learning, Big Data Analytics, Intermediate Probability, Advanced Real Analysis I, Advanced Linear Algebra, Multivariable Calculus, Differential Topology, Advanced Topics in Algorithms

Research Experience

UCLA Computational and Applied Mathematics REU

RESEARCH INTERN WORKING ON CRIME MODELING

Los Angeles, CA

Jun 2019 - Aug 2019

- Worked with 4 other student researchers to identify patterns from Los Angeles homicide data
- Developed zonal optical character recognition pipeline for text extraction from old documents using OpenCV
- Performed topic modeling and prediction using a modified latent Dirichlet allocation model built using PyTorch
- Presented work at the 2019 Joint ATD+AMPS Annual Workshop

Harvey Mudd Clinic Program, EDR

PROJECT MANAGER WORKING ON OPTICAL CHARACTER RECOGNITION

Claremont, CA

Sep 2018 - May 2019

- Led 4 other students as the spring project manager to develop image processing and feature extraction software
- Built custom rotation-invariant CNN model with PyTorch to extract and recognize handwritten characters

Internship Experience

Facebook

SOFTWARE ENGINEER INTERN WORKING ON VIDEO PROCESSING

Menlo Park, CA

May 2018 - Aug 2018

- Applied AR/VR effects on videos by processing frames sequentially using C++
- Created an intuitive UI using React and PHP/Hack for applying AR/VR effects

BMC Software

COMPUTER SCIENCE INTERN WORKING ON INNOVATION SUITE

Santa Clara, CA

Dec 2016 - Jan 2017

- Debugged software for businesses to easily create digital management apps with a drag-and-drop interface
- Collaborated with 7 interns to develop 2 applications using Innovation Suite with Java, Maven, and AngularJS

Teaching Experience

Tutor, Teaching Assistant, Grader

HARVEY MUDD COLLEGE, POMONA COLLEGE

Claremont, CA

Jan 2017 - Current

- Performed teaching-related duties for math, CS, chemistry, and biology courses
- Instructed students in private and group settings for over 15 courses

Leadership and Extracurriculars

Aug 2018 - Nov 2019 **Caltech Harvey Mudd Math Competition**, Lead Organizer

Claremont, CA

Sep 2018 - May 2019 **HMC Math Club**, President

Claremont, CA

Sep 2018 - May 2019 **HMC Algorithms Club**, Officer

Claremont, CA

Sep 2018 - May 2019 **SC Badminton Club**, President

Claremont, CA

Dec 2018 **Putnam Math Competition**, Top 500

Claremont, CA

Nov 2018 **International Collegiate Programming Contest, SoCal Regional**, 8th Place Team

Riverside, CA

Skills

Programming Languages

Python, C++, Java, Haskell, PHP

Other Skills

Git, Bash/Zsh, LaTeX, Jupyter Notebook, Flask, Neovim, Emacs, Tmux

Languages

Cantonese (bilingual), Mandarin (conversational), Spanish (conversational), Japanese (elementary)