

## EDUCATION

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- **University of California, Los Angeles** Los Angeles, CA  
*Master of Science in Computer Science; GPA: 4.0/4.0* Sept. 2018 – Mar. 2020
- **Pune Institute of Compute Technology** Pune, India  
*Bachelor of Engineering in Information Technology; GPA: 3.76/4.0* July 2014 – July 2018

## PROGRAMMING SKILLS

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- **Languages:** Python, C, C++, MATLAB, Julia, Unix Shell
- **Tools:** PyTorch, Tensorflow, OpenCV, AWS, Git, Selenium, Docker

## EXPERIENCE

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- **Alectio, Inc.** Santa Clara, CA  
*Machine Learning Scientist* Apr. 2019 - Present
  - **Automated Data Labeling:** Identification of noisy and redundant data points, unsupervised clustering, and pseudo-labeling to reduce the costs associated with the process of data collection and its subsequent labeling.
  - **Active Learning:** Design and development of an AL framework supporting a variety of SOTA query strategies.
- **HOVER, Inc.** San Francisco, CA  
*Computer Vision Engineer Intern* June 2019 - Sept. 2019
  - **Scene understanding:** Plane R-CNN based deep learning models for surface normal estimation and plane detection. Occlusion detection for complex residential structures using a student-teacher based network.

## TEACHING

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- **Teaching Assistant, UCLA, Spring 2019:** SOC 111 - Social Networks. Topics: Information dissemination, evolution of social structures, large-scale graph analysis.
- **Teaching Assistant, UCLA, Fall 2020:** CS 130 - Software Engineering. Topics: UML, Design principles, Software testing, Hoare Logic.

## PROJECTS

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- **DeepWatch: White-Box Watchpoint for Deep Neural Networks:**  
Guided by Prof. Miryung Kim (UCLA CS dept) on neuron-coverage based regularization and analysis for detecting adversarial examples in a set of realistic images.
- **Congested Scene Analysis using Dilated Convolutional GANs:**  
Crowd density and count estimation of a crowded scene by using GANs with dilated convolution kernels. Undergraduate thesis project performed under the guidance of Prof. J.B Jagdale.
- **Redistricting using Active Contours:**  
A new computational redistricting method that uses Chan-Vese active contours and K-Means clustering for drawing district boundaries to prevent gerrymandering.
- **Multi-grid Generative Convolutional Neural Networks:**  
Implemented multiple, correlated deep energy based networks trained on the Celeb-A dataset to generate new photo-realistic images. Performed in the UCLA lab (headed by Prof. Song-Chun Zhu in the CS dept) under the guidance of a PhD student Ruiqi Gao.

## ACHIEVEMENTS

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- **Hack2innovate, Mumbai Edition:** Won multiple challenges at an Artificial Intelligence hackathon organised by Samsung, NVIDIA, and the Government of India (NITI Ayog).
- **NTT DATA Internship, Tokyo:** Selected for a six week IT Management internship from a pool of more than 800 applicants.