

# RAGHAV SUBRAMANIAM

3001 Park Blvd Apt 2, Oakland, CA 94610 · 123 456 7890 · raghavs511@gmail.com

## EDUCATION

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**Stanford University, Stanford, CA** Jun 2018  
M.S. in Electrical Engineering. GPA 0.00/4.30.

**Cornell University, Ithaca, NY** May 2015  
B.S. in Electrical & Computer Engineering. GPA 0.00/4.30.

## EXPERIENCE

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**Lead Computer Vision Engineer** Mar 2017–Present  
*SafelyYou, Inc.* Berkeley, CA

- Developed deep learning algorithms for video-based fall detection for dementia patients.
- Worked closely with the founders and COO in order to launch a working fall detection product.
- Trained, fine-tuned, and iterated on convolutional neural network-based detection algorithms using Python and Caffe.
- Deployed convolutional neural networks on-prem for real-time detection.
- Took ownership of other engineering processes such as building and shipping computer hardware, interfacing with camera APIs, and maintaining a central documentation repository.

**Research Assistant** Jun 2016–Mar 2017  
*Gevaert Lab, Stanford University* Stanford, CA

- Developed deep learning algorithms for brain tumor segmentation.
- Built an extensible pipeline for medical image processing and computer vision using Python and TensorFlow.
- Gave two conference talks based on my work.

**Teaching Assistant** Jan 2015–May 2015  
*Department of Computer Science, Cornell University* Ithaca, NY

- Helped teach undergraduate/graduate-level computer vision course.
- Developed homework and test questions, held office hours, and graded papers.

**Research Assistant** Sep 2013–May 2015  
*Goldberg Lab, Cornell University* Ithaca, NY

- Worked with an interdisciplinary group of ten, including biologists and engineers, on experiments about the behavioral and neurological basis of motor learning in animals.
- Contributed to design and assembly of custom joysticks for use in novel experiments on forelimb motor learning in mice.
- Programmed a large-scale, real-time system in LabVIEW for training mice to use joysticks.

## AWARDS AND PRESENTATIONS

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*3-D Convolutional Neural Networks for Glioblastoma Segmentation*, Workshop on Multimodal Learning for Clinical Decision Support, MICCAI 2016, Athens, Greece, Oct 2016.

Best Mobile Hack, BrickHack, Rochester Institute of Technology, Rochester, NY, May 2016.

## SKILLS

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Python, Caffe, TensorFlow, Linux, Bash, Git, Vim