# RAGHAV SUBRAMANIAM

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## EXPERIENCE

**Lead Computer Vision Engineer**      **Mar 2017–Present**
*SafelyYou*      *San Francisco, CA*

- Developed deep learning algorithms for video-based fall detection for dementia patients.
- Worked closely with the founders and COO 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.
- Built and shipped servers for real-time AI.

**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.

**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

*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

**Programming:** Python, Bash
**AI:** Caffe, TensorFlow
**Tools:** Linux, Git, Vim, Jira

## EDUCATION

**Stanford University,** *Stanford, CA*      **2015–2018**
  MS, Electrical Engineering

**Cornell University,** *Ithaca, NY*      **2011–2015**
  BS, Electrical & Computer Engineering