

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, Caffe, and PyTorch.
- 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 2015**.

SKILLS

Programming: Python, Bash

AI: PyTorch, Caffe

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