

# Mohit Nalavadi

Computer Vision & Machine Learning Engineer

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git github.com/momonala

## Experience

### Amyris – Automation Engineer Intern

May 2017 – Aug 2017

- Wrote software for robotic automation in synthetic biology.
- Updated the vision algorithms for a robotic colony counter and picker.

### Data Science Associate Instructor– General Assembly

April 2017 – June 2017

- Taught Python, Pandas, Sklearn from the ground up – 10 week course
- Mentored 18 students' capstone projects

### Leif Therapeutics – Hardware QA Engineer Contractor

Feb. 2017 – April 2017

- Leif is a wearable ECG which uses haptic biofeedback to manage stress
- Built 60 beta-units of the device, tested hardware and firmware pre-production

### NASA Ames: Biomechanics Researcher Intern

April 2014- March 2017

- Studied the bio-mechanical regulation of the skeletal structure in micro-gravity
- Wrote algorithms (Perl, Matlab) to process data for mechanical strength tests & statistical analysis
- $\mu$ CT imaged 150+ mice, conducted material strength testing of bone, 3D image analysis
- Created 3D printed models of bone micro-architecture from  $\mu$ CT images for demonstration

### Insula: Biophysical Music – Thesis Project

Sept 2015 – June 2016

- Insula is a real-time biofeedback device which combines live EEG, EMG, ECG, breath rate, and gesture data into music
- I developed ECG, EMG & Breath Rate signal processing algorithms (Arduino, Python, Chuck) and hardware -- team of 4
- Voted *Best in the Interdisciplinary Project* in the SCU Senior Thesis Conference

## Education

### University of Twente 2017 – Present

- M.S. Computer Vision Engineering

### Santa Clara University 2012-2016

- B.S. Biomolecular Engineering

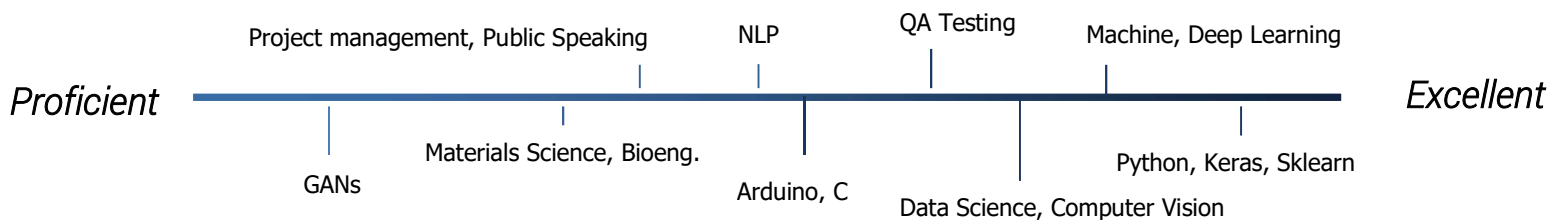
### Udacity Nanodegrees 2017 – Present

- Deep Learning
- Autonomous Vehicles Engineering (1/3 complete)
- Robotics Engineer (1/2 complete)

### General Assembly SF 2016

- Data Science Technical Certificate

## Skills



## Awards

- Young Scientist Program Graduate - Blue Marble Space Institute of Science
- Best Interdisciplinary Thesis – SCU Thesis Conference 2016
- SCU – James W. Reites Humanitarian Award
- 1<sup>st</sup> Place in 19 & under age division for Napa Valley Half Iron Man