Mohit Nalavadi
Computer Vision & Machine Learning Engineer

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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
- μCT imaged 150+ mice, conducted material strength testing of bone, 3D image analysis
- Created 3D printed models of bone micro-architecture from μCT 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 signal processing algorithms (Arduino, Python, ChucK) and hardware -- team of 4
- Voted *Best in the Interdisciplinary Project Session* in the SCU senior thesis conference

Education

University of Twente   *2017 – Present*
- M.S. Computer Vision Engineering

Santa Clara University   *2012-2016*
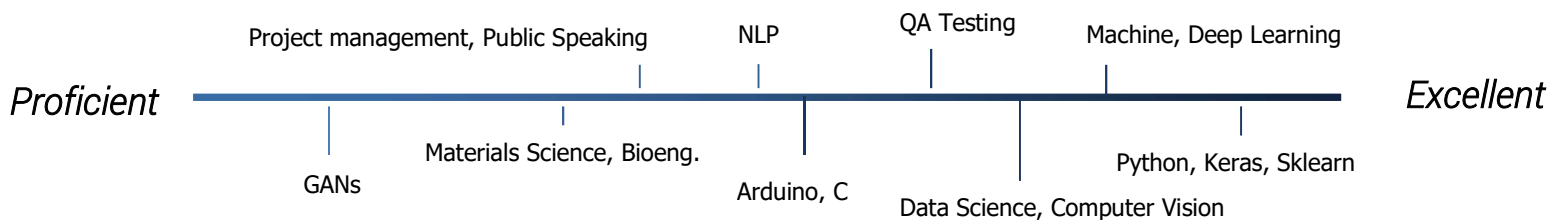- B.S. Biomolecular Engineering

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

Proficient —————————————————————————————— *Excellent*

- Project management, Public Speaking
- NLP
- QA Testing
- Machine, Deep Learning
- GANs
- Materials Science, Bioeng.
- Arduino, C
- Data Science, Computer Vision
- Python, Keras, Sklearn

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