

Mohit Nalavadi

Data Scientist

✉ mnalavadi@gmail.com
☎ +01 916.673.8100
git github.com/momonala

Experience

Amyris: Automation Engineer Intern

May 2017 – Aug 2017

- Wrote software for robotic automation in synthetic biology (Python, C++)
- Improved the computer vision algorithms for a robotic colony counter and picker

General Assembly: Data Science Associate Instructor

April 2017 – June 2017

- Taught Python, pandas, scikit-learn machine learning, visualization in a 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 pre-production hardware and firmware

NASA Ames: Biomechanics Research Intern

April 2014- March 2017

- Studied the biomechanical regulation of the skeletal structure in micro-gravity
- Wrote algorithms (Python, Perl, Matlab) to process data for mechanical strength tests & statistical analysis
- μ CT imaged 150+ mice, conducted material strength testing of bone, 3D image analysis
- Created 3D printed models of bone micro-architecture from μ 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 Interdisciplinary Project* in the SCU Senior Thesis Conference
-

Education

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

General Assembly SF 2016
Data Science Technical Certificate

Udacity Nanodegrees 2017-2018
Deep Learning
Autonomous Vehicles Engineering

Skills

Programming: Python, C++, Data Science, Computer Vision (OpenCV), Machine/Deep Learning, NLP, Linux/Windows, Keras, Flask, RESTful APIs, Arduino

Science/Engineering: Biomechanics, Molecular Biology, Biosensors, Lab Automation, QA Testing

Other: Technical Writing, Project Management, Photoshop CS6

Awards

- Young Scientist Program Graduate – Blue Marble Space Institute of Science at NASA 2017
- Best Interdisciplinary Thesis – Santa Clara University Thesis Conference 2016
- James W. Reites Humanitarian Award 2016 – Santa Clara University (Engineers Without Borders)
- 1st Place in 19 & under age division for Napa Valley Half Iron Man