

# Mohit Nalavadi

## Software Engineer (data science focus)

✉ [mnalavadi@gmail.com](mailto:mnalavadi@gmail.com)  
☎ +49 174 5423450  
git [github.com/momonala](https://github.com/momonala)

## Experience

### Commercetools GmbH: Data Scientist

May 2018 – Present

- Building, maintaining, and scaling machine learning APIs for eCommerce (Python)
- APIs include product similarity search, demand forecasting, recommendation systems

### Premaster's Student – Biometrics & Computer Vision – University of Twente, NL

Aug 2017 – April 2018

- Took courses involving computer vision, data science, Python & C++

### 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

### 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 Working Student

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
- $\mu$ CT imaged 150+ mice, conducted material strength testing of bone, 3D image analysis

### Insula: Biophysical Music – Thesis Project

Sept 2015 – June 2016

- Insula is a real-time biofeedback device which converts physiological events into music
- Use cases in muscular-rehabilitation, meditation, art
- I developed ECG, EEG, EMG & Breath Rate signal processing algorithms (Arduino, Python) 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

## Skills

**Programming:** Python, C++, Computer Vision, Machine Learning, Flask, Arduino, Git, Bash

**Science/Engineering:** Kubernetes, Docker, Google Cloud, CircleCI, Linux, QA testing, rapid prototyping

**Other:** technical writing, scientific communication, project management, biomechanics, biosensors, 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