
Experience

Commercetools GmbH: Data Scientist

May 2018 – Present

- Building machine learning APIs for eCommerce (Python)
- Microservices 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
- μ 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 (OpenCV), Machine Learning, Linux, Git, Keras, Flask, Arduino

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

Other: Technical Writing, Scientific Communication, 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