MOHIT NALAVADI

Sr. Software/Data Engineer

CONTACT

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EDUCATION

University of Twente 2018
M. Sc. Biometrics & Data Science

Santa Clara University 2016
B.Eng Biomolecular Engineering

SKILLS

Software:

- Python, SQL, Bash, Arduino, Git
- GCP, PostgreSQL, Kubernetes
- ETLs, Apache Beam
- scientific computing
- data visualization
- Ansible, ML-Ops
- monitoring, logging, Datadog
- REST APIs, Linux
- CI/CD, unit/end-to-end testing

Other:

- Agile, technical writing, scientific communication, project management
- remote sensing
- hardware/sensors
- biology/chemistry

AWARDS

- Berlin Hack and Tell Winner Jan. 2019
- Young Scientist Program Graduate – Blue Marble Space Institute of Science at NASA 2017
- Best Interdisciplinary Thesis – Santa Clara University 2016

EXPERIENCE

Data Engineer @ Grandperspective GmbH 2021-2025

- We design an early-warning gas leak detection system for industrial factory applications, using IR optical measurements
- I helped build the data infrastructure (signal processing, data visualization, ETL pipelines, GCP infrastructure)
- I worked closely with our Data Science and Dev Ops teams to ensure platform uptime, data availability, and end-to-end monitoring and testing of our data processing stack

Data Scientist @ Commercetools GmbH 2018- 2021

- Built, maintained, and scaled machine learning APIs for eCommerce
- I built an Image Similarity Search Engine - scans 500k+ images and returns most similar in <2 seconds
- I managed the ML-Ops side of our MongoDB index recommendation engine - scans weekly MongoDB logs and finds 10-30 high-impact indexes for faster queries. Runs on Google Cloud + AWS
- Other projects include a demand forecasting API, generating ML-based “customer clusters” for recommendations

Contractor/Intern 2017

Amyris: Automation Engineer Intern

- Wrote software for robotic automation in synthetic biology
- Improved the computer vision algorithms for a robotic colony counter

General Assembly: Data Science Associate Instructor

- Taught Python, pandas, scikit-learn, data viz in a 10-week course

Leif Therapeutics – Hardware QA Engineer

- Leif is a wearable ECG using haptic biofeedback to manage stress
- Built 60 beta-units, QA tested pre-production hardware and firmware

NASA Ames: Biomechanics Working Student 2014 -2017

- Studied the biomechanical regulation of the skeleton in microgravity
- Wrote algorithms to process data for mechanical strength tests
- µCT (3D) imaged 150+ mice, conducted material strength tests of bone

Insula: Biophysical Music – Thesis Project 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 algorithms and hardware
- Best Interdisciplinary Project in the SCU Senior Thesis Conference