

# Jonathan Logan Moran

[linkedin](#)/[github](#)/[devpost](#)/[portfolio](#)

## CONTACT

+1 (760) 975-7771

[jonathan.moran107@gmail.com](mailto:jonathan.moran107@gmail.com)

## EDUCATION

**University of California, Merced**— School of Engineering  
Computer Science & Engineering, B.S.

CLASS OF 2020

- Relevant Coursework: Intro to Computer Vision, Probability & Statistics, Discrete Mathematics, Signals & Systems
- Awards: Most Promising Innovation (SD Hacks 2.0), 1517 Fund Award (SD Hacks 2.0), 1st Place in Creativity (HackMerced), Dean's Honors List
- Leadership: Mental Health Merced (co-founder), NAMI Chapter (co-founder), HackMerced (Leadership committee)

**Lunds Tekniska Högskola, Sweden**— Faculty of Engineering  
Datateknik (Computer Science & Engineering), Incomplete

JAN 2019 - JAN 2020

- Relevant Coursework: Applied Machine Learning, Applied Artificial Intelligence, Language Technology (NLP), Computer Vision
- Awards: Brons I (TLTH:s Valörer), Brons II (TLTH:s Valörer)
- Leadership: Proud Tech vid TLTH (Direktør), Smålands Styrelsen (Web Responsible, Cafe Commissar)

## RELATED EXPERIENCE

**The Morning Star Company**  
*Intern | Software Engineer*

FEB 2020 - JUN 2020

- Utilized Python, OpenCV, SQL and C++ to build a production-level computer vision application to detect and log various tomato plants for further analysis
- Presented results to stakeholders and was awarded best solution

**CRADL Lab**  
*Research Assistant | Lead Software Engineer*

JUN 2018 - JAN 2019

- Authored experiment designs in attention and perception, phonetic restoration, and spatial navigation in VR
- Presented at ICPS Paris 2019
- Publication: Moran, J. L. (2019). Classifying Emotion Using Convolutional Neural Networks. *UCM URJ*, 11(1).

**Google**  
*CodeU Spring '17 Participant*

MAR 2017 - JUL 2017

- Participated in an Invite-only 12-week development program for high-potential CS undergraduates
- Implemented a full-stack chat application in Java and PHP while accomplishing all team + project goals

## SKILLS

- **Programming Languages:** Python, Java, C, C++, Matlab
- **Machine Learning & Big Data:** SQL, Python (e.g. scikit-learn, keras, tf, numpy, pandas, plotly), Jupyter/Google Colab, R, Docker
- **Data Science & Other Technologies:** PostgreSQL, Pandasql, Excel, Git, Experiment design, EDA, Hypothesis testing, OpenCV, Cognex In-Sight Explorer

## CERTIFICATIONS AND TRAINING

**Google Machine Learning Crash Course**

APR 2021

Linear regression, stochastic gradient descent, TF feature crosses, L1/L2 regularization, logistic regression, one-hot encoding, embeddings layers, DNNs

**Applied Machine Learning: Foundations**

SEPT 2020

EDA, data cleaning, model bias, overfitting, regularization, cross-validation

**Neural Networks and Convolutional Neural Networks Essential Training**

MAY 2018

Gradient descent, backpropagation, hyperparameter tuning, MNIST recognition, image augmentation