Jonathan Logan Moran

linkedin/github/devpost/portfolio

CONTACT

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EDUCATION

University of California, Merced— School of Engineering   CLASS OF 2020
Computer Science & Engineering, B.S.

- Relevant Coursework: Probability & Statistics, Linear Algebra, Discrete Mathematics, Software Engineering in Teams, Computer Vision, Analysis of Psychological Data, Research Methods in Cognitive Science
- 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   JAN 2019 - JAN 2020
Continuing Studies, B.S.

- Relevant Coursework: Language Technology (NLP), Applied Machine Learning, Applied Artificial Intelligence
- 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   FEB 2020 - JUN 2020
Intern | Software Engineer

- Utilized Python, OpenCV, SQL and C++ to build a production-level computer vision application to detect and log various tomato plants for further analysis
- Designed and implemented a data model to handle internal collection and reporting of the plant growth cycle
- Presented results to stakeholders and was awarded best solution

CRADL Lab   JUN 2018 - JAN 2019
Research Assistant | Lead Software Engineer

- Authored experiment designs in attention and perception, phonetic restoration, and spatial navigation in VR
- Empowered colleagues with data visualisation tools that resulted in an invitation to present at ICPS Paris 2019
- Publication: Moran, J. L. (2019). Classifying Emotion Using Convolutional Neural Networks. *UCM URJ*, 11(1).

Google   MAR 2017 - JUL 2017
Intern | CodeU Software Engineer

- Facilitated the complete overhaul of the Java CLI, building both desktop and web interfaces
- Diagnosed key issues with the client server architecture that reached the attention of the program organisers
- Mentored the team through weekly code reviews, advisor meetings and feature releases by integrating effective Google tracking and accountability tools

SKILLS

- **Programming Languages:** Python, Java, C, C++, Matlab
- **Machine Learning & Big Data:** SQL, Python (scikit-learn, keras, tf, numpy, pandas, plotly), Machine Learning (CNN, RNN, LSTM, GAN). NLP (sequence tagging, NER, n-grams, word embeddings), Jupyter/Google Colab, R, Docker
- **Data Science & Other Technologies:** PostgreSQL, Pandasql, Excel, Git, Experiment design, Hypothesis testing

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