Daan I Leiva

www.linkedin.com/in/daan-leiva

9+ years of experience in software engineering and full stack development including managing other developers, communicating with customers and releasing multiple inhouse pieces of software that are critical to the company's manufacturing operation

Contact

Phone
213-408-1597

Email
daan.leiva@gmail.com

Address
Valley Village, CA 91607

Education

2016
Bachelor of Science in Physics
Bachelor of Science in Computer Science
Minor in Applied Mathematics
California State University, Long Beach, CA
Relevant Courses: Databases, Data Structures and OOP, Linear Algebra, Partial Differential Equations, Thermodynamics, Quantum Mechanics, Circuits, Solid State Physics

2018
Master of Science in Computer Science (emphasis on AI, Machine Learning and Bioinformatics)
University of California, Los Angeles
Relevant Courses: Bioinformatics, Machine Learning & Artificial Intelligence

Expertise

- Python
- Pandas
- TensorFlow
- Pytorch
- Google Cloud
- Kubernetes
- Kotlin
- Java
- VB.NET
- T-SQL
- C#
- Numpy
- OpenCV
- Docker
- C
- C++
- JavaScript

Spoken Languages

English **Spanish (Fluent)** **Portuguese (Conversational)**

Experience

June 2014-Present
Absolute Technologies I Anaheim, CA
Software Engineer

- Lead software engineering in charge of the company's software development pipeline
- Develop software to produce the company's job schedule at the operation level
- Automated error analysis tools for the company's database
- Software that aides in manufacturing projections, capacity assessments, sales orders pipeline, and cost analysis
- Full stack developer (TSQL, Python, Qt)
- Manage software development team
- Work with customers and management to create development, deployment and testing plans

October 2015-2016
Long Beach Water Department I Long Beach, CA
Machine Learning/Software Engineer

- Develop a Convolutional Neural Network using FANN in C++ that can quantify the probability that an underground pipe may be have any structural damage
- Use OpenCV to do image preprocessing (rescale, greyscale, resize)
- The program was used in combination with the live feed from a small robot that would traverse the city's pipeline system
- This project was intended to drastically reduce the time that it takes to inspect all of the city's pipeline system (from 10 years to about 1)
- Several hours of footage were manually analyzed to create a dataset. Cracks were labeled by their longest dimension

Winter 2011-Spring 2014
Nano Optics Research Lab, CSULB I Long Beach, CA
Research Assistant

- Used a near-field scanning optical microscopy with a near infra-red and visible broadband laser to perform experiments observing gold nano rods, graphene, change in VO2's impedance when undergoing phase transitions
- Publication: "Near-field spatial mapping of strongly interacting multiple plasmonic infrared antennas" Phys. Chem. Chem. Phys.
- Also in charge of producing samples of nano antennas to study plasmonic interactions

Certifications

- Machine Learning Engineering for Production (MLOps) Specialization (4 courses) **Aug 2023**
- TensorFlow: Advanced Techniques Specialization (5 courses) **Jun 2023**
  - GAN, Style Transfer, AutoEncoders, Custom Models, Distributed Training
- TensorFlow 2: Deep Learning Specialization (3 courses) **Apr 2023**
  - Sequential API, Model Subclassing, Probabilistic Generative Models
- First Principles of Computer Vision Specialization (5 courses) **Mar 2023**
  - 3D Reconstruction, Object Tracking, Image Segmentation, SIFT Detector
- Machine Learning Specialization (3 courses) **Feb 2023**
  - Reinforcement Learning, Recommender System, Clustering, Overview of ML principles
- DeepLearning.AI TensorFlow Developer Specialization (4 courses) **Nov 2020**
  - Computer Vision and CNNs, Word Embeddings, NLP, Time Series Data/RNNs
- Deep Learning Specialization **Aug 2020**
  - Transfer Learning, Basics of Deep Neural Networks