Max Marion

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EDUCATION

OCCIDENTAL COLLEGE | Math and Computer Science

August 2014 – May 2018 | Los Angeles, CA

- Graduated with a double major in Math and Computer Science
- One of three students to graduate from the Computer Science program in its inaugural year

CALIFORNIA TECHNICAL INSTITUE

January 2016 – March 2018 | Pasadena, CA

- After completing all available Computer Science courses at Occidental, took additional CS classes concurrently at Caltech while still attending Oxy.
- **Related Coursework:** Decidability and Tractability, Fundementals of Computer Programming, Learning From Data, Machine Learning and Data Mining, Projects in Machine Learning, C Language Shop, Function Programming Language Shop.

EXPERIENCE

MACHINE LEARNING ENGINEER, KUNGFU.AI | December 2018 - Present

Developing machine learning solutions for clients in computer vision, natural language processing, and a variety of other fields. Projects are full stack, requiring DevOps, data engineering, and software engineering skills.

CLIMATE CHANGE AI | August 2022

Participated in a two week long research workshop bringing together interdisciplinary scientists and Machine Learning practitioners to research and then implement cutting edge Machine Learning solutions to cutting edge issues in Climate Change

RAINFOREST CONNECTION | April 2019 - June 2021

Leveraged deep learning to detect gunshots from ambient rainforest audio data. Current iteration of the network architecture uses a self-supervised deep learning technique to build representations with a supervised head on top of that

SPECIFIC PROJECTS AND CERTIFICATIONS

DENT DETECTION | Convolutional Neural Network

Developed a Mask RCNN with a ResNet backbone capable of detecting, segmenting, and pricing the repair of dents on car exteriors from a single picture

TRADING CARD AUCTION PRICE PREDICTION | Twin Network

Engineered, tested, and maintained a twin network with triplet loss to predict sales prices of collectables at auction. Project targeted rare cards with high value, leveraging ElasticSearch to derive reference cards for seeding

CLICK THROUGH RATE PREDICTION | Gradient Boosted Trees

Designed and implemented a decision tree solution for CTR prediction on internet ads with a less than ten millisecond latency hard requirement and large training set imbalance

GOOGLE CERTIFIED PROFESSIONAL MACHINE LEARNING ENGINEER | Cloud technology and General Machine Learning

Completed the Google Cloud certification exam for "Professional Machine Learning Engineer," contributing to Google Cloud Partnerships

SKILLS

TECHNICAL

Python • GCP • AWS
Linux • Docker • Pandas
TensorFlow • Pytorch
Spark

SOFT

Comfortable working in organized settings and self-structured ones
Understands receiving and giving mentorship
Asks for help when needed