

Theodore Dyer

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Linkedin: [in/theodoredyer](#) | **Portfolio:** [theodoredyer.github.io](#) | **Github:** [github.com/theodoredyer](#)

EDUCATION

Johns Hopkins University - M.S. - Baltimore, Maryland, US

2020 - 2022 (Spring)

Degree: **Master of Science, Computer Science** (Focus in AI/ML) - GPA: 3.85

- **Machine Learning:** From scratch implementation and analysis of: k-nn (with edited and condensed algorithm variants), Decision Trees (ID3 and CART), Artificial Neural Networks (including backpropagation), and data preprocessing tools.
- **Data Science:** Problem identification, statistical inference, data visualization, ETL, EDA, linear + logistic regression, model evaluation, k-means clustering, decision trees & random forests.
- **Artificial Intelligence:** State Space Search, Genetic Algorithms, CSPs, Forward Planning, Reinforcement Learning.
- **GPU Programming:** Introductions to CUDA and OpenCL, concurrent programming.

University of California, Santa Cruz - B.S. - Santa Cruz, CA, US

2016 - 2020

Degree: **Bachelor of Science, Computer Science.**

SKILLS

- **Data Tools:** Apache Spark (PySpark), Python (Pandas, NumPy, scikit-learn, Streamlit), Excel, Brain.js
- **Data Visualization:** D3.js, Tableau, Matplotlib
- **Databases:** SQL: SQLite, NoSQL, Amazon S3
- **Software Development:** Python, Java, C, JavaScript & HTML/CSS

EXPERIENCE

Humanyze | Boston, MA

5 mos | **Mar 2021 - July 2021**

Data Engineer Intern

- Rebuilt existing company data pipeline utilizing PySpark/S3 to solve existing PostgreSQL scaling problems with larger clients.
- Facilitated communication with engineering and analytics teams to ensure cross-team goals and expectations were unified.

Tech Skills & Tools: Apache Spark (PySpark), Amazon S3, Amazon Elastic MapReduce (EMR), PostgreSQL

OpenPath | Irvine, CA

5 mos | **Nov 2020 - Mar 2021**

Data Science Intern (Lead)

- Lead weekly standup meetings to assess project progress and delegate tasks from mentors to appropriate team members.
- Current Projects: Standardizing ecommerce data from multiple input platforms (Shopify, PayPal, Apple Pay, etc). Generating complex SQL queries to identify key customer demographics, suspicious transactions, and customer losses.

Tech Skills & Tools: SQL (Azure Data Studio - SQL Server), Python (Pandas, scikit-learn), Tableau

Data Projects | Santa Clara, CA

11 mos | **Nov 2019 - Present**

<https://theodoredyer.github.io/projs.html>

ML5.js Mask Detection

- Trained a machine learning model with images of proper and improper mask wear using the ml5.js JavaScript library, and deployed this model to my website - using any camera for model input the site will display its prediction for mask detection.

Tech Skills & Tools: JavaScript (ml5.js, p5.js) HTML, CSS, Image Classification, Model Deployment

Big Picture Game Studio | Santa Cruz, CA

5 mos | **Jun 2019 - Oct 2019**

Unity Development Intern

- Developed mobile game progression and currency systems in addition to core game-play logic in C# (Unity Game Engine)
- Collaborated with remote artists in designing UI elements and facilitated UI integration to build an intuitive user experience.

Tech Skills & Tools: C# Scripting, Unity Engine, Project Management.

CERTIFICATIONS

Udemy: Python for Data Science and Machine Learning Bootcamp

(Issued September 2020)

- Implemented and evaluated supervised and unsupervised machine learning models. Intro to NLP, Big Data, Spark.

Linkedin Learning: Python for Data Science Essential Training (Parts 1&2)

(Issued October 2020)

- Cleaning data, web scraping (beautifulsoup), exploratory data analysis and data visualizations w/ matplotlib and seaborn.

Linkedin Learning: SQL Essential Training

(Issued October 2020)

- Topics included complex queries (sorting/filtering), JOINS, aggregate functions and transactions, triggers for automation.