

# 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**

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
- **Software Development:** Python, Java, C, JavaScript & HTML/CSS, CUDA, OpenCL
- **Databases:** SQL, Amazon S3

## 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

**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.

**Data Projects** | Santa Clara, CA

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

- Portfolio site containing some personal projects I've worked on and additional contact information.

## 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.