THEODORE A. DYER

PERSONAL INFORMATION
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RELEVANT LINKS
theodoredyer.github.io
linkedin.com/in/theodoredyer
github.com/theodoredyer

EDUCATION

Johns Hopkins University - Baltimore, MD
Master of Science - Computer Science (Focus in Data Science and Cloud Computing)
Expected Graduation - August 2022

University of California, Santa Cruz - Santa Cruz, CA
Bachelor of Science - Computer Science
Graduation - June 2020 - Major GPA 3.4/4.0

PRIMARY SKILLS

Languages and Libraries:

- Python : Data Analysis & Visualization, ML
- SQL : SQLite, NoSQL
- Proficient : Java, C, JavaScript & HTML/CSS
- Data Analysis : Pandas, NumPy, Excel
- Data Visualization : D3.js, Matplotlib, Seaborn
- Machine Learning : scikit-learn, TensorFlow

Relevant Coursework:

- Data Visualization : D3.js & Python data analysis
- Computer Graphics : OpenGL
- Analysis of Algorithms : Dynamic programming, Asymptotic analysis, NP-Complete problems
- Probability for Engineers : Stochastic analysis
- Compiler Design : Haskell and Docker
- Computer Systems Design : Built a load balanced and multi-threaded HTTP server in C

DEVELOPMENT EXPERIENCE

Unity Development Intern
Big Picture Game Studio
(June 2019 - October 2019)

- Developed mobile game progression and currency systems in addition to core game-play logic in C#.
- Integrated and helped artists design UI elements to build an intuitive user experience.

Data Projects - (These and more available @ https://theodoredyer.github.io/projs.html)
Seattle Police Data Analysis

- Identified issues in police accountability with data analysis and visualization of Seattle police data.
- Linked above patterns to county populations by creating a heat map of Washington state population density (with data from census API) Utilized Python (Pandas, NumPy) and D3.js (+ HTML/CSS).

Course Review Data Analysis

- Generated insights for informed course selections by consolidating university professor feedback data into composite scores and performing exploratory data analysis. Utilized Python (Pandas, NumPy, Seaborn).

Brain.js Text Color Predictor

- Utilized brain.js (JavaScript neural network framework) to create a network with the ability to predict appropriate text colors for a web page to maximize contrast on randomly generated background colors.

CERTIFICATIONS

- Udemy: Python for Data Science and Machine Learning Bootcamp (Issued September 2020).
- LinkedIn: Python for Data Science Essential Training (Parts 1/2, Issued October 2020).
- LinkedIn: SQL Essential Training (Issued October 2020).