Jonathan Hirsch

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EDUCATION

Oregon State University

Corvalis, OR

Bachelor of Science in Computer Science, GPA 3.9

Expected December 2024

University of California, Santa Cruz

Santa Cruz, CA

Bachelor of Arts in Business Management Economics

September 2018 - August 2020

EXPERIENCE

Jr. Staff Accountant

July 2022 - September 2022

Hyder Property and Co.

San Marcos, CA

 Conducted bank account reconciliations and analyzed cash flow for multiple properties, ensuring financial records accuracy.

Viticulture Intern

April 2021 - October 2021

Advanced Viticulture

Windsor, CA

• Collected and managed comprehensive vineyard data, utilizing data analysis techniques to provide informed care recommendations for grapevines.

Tech Ethics Review Board Intern

June 2020 - August 2020

University of California, Santa Cruz

 $Santa\ Cruz,\ CA$

- Conducted in-depth research and analysis on the social and ethical implications of emerging technologies, contributing to the development of ethical frameworks.
- Collaborated closely with a diverse team to discuss and refine ethical considerations in technology development.
- Presented research findings at team meetings and academic events, fostering a deeper understanding of the importance of ethics in technology.

Projects

Musical Genre Recognition Model | Python, PyTorch, pandas, NumPy, scikit-learn

- Trained a machine learning model using PyTorch to classify music genres, achieving 93.6% accuracy on the testing data.
- Conducted thorough data preprocessing, leveraging Pandas, NumPy, and scikit-learn, to organize and prepare the dataset for optimal model performance.
- Implemented data cleaning and feature engineering techniques to handle missing information and irrelevant attributes, ensuring the model's ability to make accurate genre predictions.

Video Game Log | JavaScript, React, HTML/CSS, MongoDB, Express.js, Node.js

- Designed and developed a user-friendly interface using React, enabling users to effortlessly log their favorite games and rate them.
- Implemented a robust RESTful API using Node.js and Express, facilitating seamless CRUD operations for game logging and management in conjunction with MongoDB.
- Leveraged Mongoose, an elegant object modeling tool for Node.js, to streamline data modeling, validation, and interaction with the MongoDB database.

Checkers Game | Python

- Utilized advanced OOP concepts to develop a modular and extensible code architecture, promoting code reusability and maintainability.
- Implemented a visual component in the command line interface (CLI), providing an interactive experience for players to visualize the game board and make strategic moves.
- Ensured a bug-free experience through comprehensive unit testing.

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML/CSS, mySQL, x86 Assembly, C.

Frameworks: Django, Flask, React, MongoDB, Node.js, Express.js, PyTorch.

Developer Tools: Git, VS Code, Visual Studio, PyCharm.

Libraries: pandas, NumPy, Matplotlib, scikit-learn.