ARMIN IRVIJE

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EDUCATION

University of California, Davis   **June 2024**
Bachelor of Science, Computer Science
Coursework & Organizations: Introduction to Machine Learning, Deep Learning, Object Oriented Programming, Data Structures and Algorithms, Phi Gamma Delta
Skills: Python, Pytorch, Java, C++, HTML, CSS, SQL, Git

EXPERIENCE

Machine Learning Intern   **San Diego, CA**
Laboratory for Pathogenesis of Clinical Drug Resistance and Persistence   July 2024 - Present
- Developed an ML model for identifying DNA bases and their modifications using a Siamese neural network
- Conducted extensive data preprocessing, parameter tuning, and optimization to achieve .92 MCC
- Leveraged Nvidia GPU clusters and CUDA-powered Pytorch platform to accelerate training
- Created a MySQL database to store all the data from the sequenced DNA, enabling efficient data management
- Tools used: Pytorch, Numpy, Pandas, GitLab

Computer Science Intern (remote)   **Dublin, Ireland**
Sports Impact Technologies - Startup that develops a wearable sensor to monitor head impacts   June 2023 - August 2023
- Developed a website from inception to completion, through self-taught HTML and CSS, articulating the company's mission, showcasing product features, and enabling customer engagement through email input forms
- Utilized Figma for UI/UX design and wireframing, translating design into a functional web application
- Led remote presentations on website development processes, sharing methodologies, technical challenges, and solutions

Student Council Treasurer   **Helsingor, Denmark**
International Peoples College - Folk school where classes are taught from a global perspective   January 2022 - June 2022
- Implemented a Java program to monitor the student council budget, ensuring accurate recording of deposits and withdrawals, resulting in efficient financial management
- Acted as a representative of the student body, presenting financial reports and student needs to the school board

PROJECTS

MindtheAge | Healthcare Project

- Developed a mental health recommendation app, allowing users to receive tailored resources based on their profile
- Implemented a logistical regression model to classify mental health text inputs and provide personalized recommendations
- Designed a user interface with login and navigation features, ensuring seamless access to mental health resources
- Tools used: Python, Scikit-learn, Streamlit

Simple Shell | OS Project

- Programmed a C-based custom shell program, implementing essential command-line functionalities such as tokenization, parsing, command execution, output redirection, and piping
- Enhanced debugging and testing strategies, utilizing comprehensive test cases to ensure robust error handling and command parsing

NBA Points Predictor | Hackathon Project

- Created a web application for predicting NBA players' future points per game using regression modeling
- Leveraged statistical analysis of historical performance data to inform training, team strategies, and player evaluations
- Tools used: Python, Flask, HTML, Pandas, Scikit-learn