

# ARMIN IRVIJE

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## EDUCATION

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### 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

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### 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 high model performance, including experimenting with various learning rates, batch sizes, and network configurations
- Leveraged Nvidia RTX A6000 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: Python, 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, speaking in front of the school board to advocate for student needs and present financial reports

## PROJECTS

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### 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