

ARMIN IRVIJE

armin.irvije@gmail.com | [linkedin.com/in/arminirvije](https://www.linkedin.com/in/arminirvije) | arminirvije.com | github.com/Armin-Irvije

EDUCATION

University of Copenhagen

Graduation May 2027

Master of Science, Computer Science

University of California, Davis

June 2024

Bachelor of Science, Computer Science

Coursework: Deep Learning, Object-Oriented Programming, Software Engineering, Natural Language Processing

Skills: Python, PyTorch, C++, Java, JavaScript, HTML, CSS, Git, SQL

EXPERIENCE

Machine Learning Engineer

San Diego, CA

SDSU Research Foundation

July 2024 - Present

- Developed a Siamese Neural Network to identify DNA base modifications, achieving **95%** classification
- Designed and executed an end-to-end **ETL** pipeline to extract raw sequencing data, transform features into model-compatible formats, and load clean datasets into MySQL for analysis and model training
- Reduced model testing time by **50%** by integrating **GitLab CI/CD** to automate preprocessing, training, and deployment
- Tools used: Python, PyTorch, Numpy, Pandas, GitLab, MLflow, CUDA

Software Developer Intern (remote)

Dublin, Ireland

Sports Impact Technologies - Startup that develops a wearable sensor to monitor head impacts

June 2023 - August 2023

- Developed the company's **first web presence** by creating a website from inception to completion, using HTML5, CSS, and JavaScript, implementing form validation and email integration APIs for lead generation
- Utilized **Figma** for UI/UX design and wireframing, translating design into a functional web application
- Led 5 remote presentations on website development processes, sharing methodologies, technical challenges, and solutions

PROJECTS

NBA Points Predictor | Hackathon Project | Python, Flask, HTML, Pandas, Scikit-learn

- Created an NBA points prediction model, achieving **95% accuracy** using regression techniques
- Analyzed 10+ seasons of player statistics to identify 7 key performance indicators that improved prediction by **40%**

Prescription Drug LLM | Fine-Tuning Project | PyTorch, Huggingface, Transformers, Streamlit

- Developed Drug-LLM, a specialized language model fine-tuned on prescription medication data, achieving **87% accuracy**
- Implemented Parameter-Efficient Fine-Tuning using **Low-Rank Adaptation**, reducing trainable parameters by 93%

BatchPhoto Studios | Freelance Project | Electron, Python, Rembg, HTML, CSS, JavaScript

- Programmed a cross-platform desktop application that does image background removal, customization, and file renaming
- Integrated Python-based image processing algorithms for batch processing multiple images

Attendance Tracker | Freelance Project | React, TypeScript, Vite, Tailwind, PostgreSQL

- Developed a full-stack web application with a comprehensive client management system, serving Unified ESL service providers with streamlined attendance workflows and real-time data synchronization via **Supabase** database
- Achieved **40%** improvement in attendance tracking efficiency by automating the manual process