Patrick Schmitt

https://www.linkedin.com/in/patrick-l-schmitt/

Education

University of North Carolina at Chapel Hill 2018-2022

- Bachelors of Science in Statistics and Mathematics (double major)
- Coursework covering Object Oriented Programming, Data Structures and Algorithms, Classical Machine Learning, Mathematical Statistics

Experience

Software Engineering Intern | Renaissance Computing Institute 2018-2022

- Wrote production code to query and handle high dimensional patient data for a team of environmental health researchers. Developed a new algorithm for inferring data that was published in a technical report and was crucial to the publication of numerous other biomedical papers.
- Developed front end biomedical software using React and Neo4j to present information about graphs and networks of data to users. Debugged backend API code in Python.

Projects and Awards

Phi Beta Kappa

Graduated in top 10% of class. 2022

AI Finetuning

Trained fine-tunings of popular AI models such as LLaMA, Stable Diffusion, and Flux. These fine-tunings have been used by hundreds of enthusiasts. 2024-2025

Predicting Online Shopper Intentions

A project done for a machine learning class which outperformed results in the existing literature while using simpler models. 2021

HackDuke

Won 2nd place in the HackDuke 2021 'Code for Good' hackathon for a project modeling student competencies based on test results. 2021

A Framework for Estimating the Bounds of Contingency Tables

A technical report written for the Renaissance Computing Institute. 2022

Skills

Significant Experience: C#/.NET (WPF, Unity), Python (Pandas, Numpy), SQL, Git.

Some Experience: Java, R, C++, MongoDB, Javascript (React)