Patrick Schmitt

Location	Pittsboro, NC	**Email**	ptlsc2@gmail.com
		Website	patlsc.github.io

Graduating student seeking work in Software Engineering.

Education

2018-2022 The University of North Carolina at Chapel Hill

B.S., Statistics and Analytics
B.S., Mathematics
Senior. Phi Beta Kappa. 3.68 Major GPA.

Relevant Coursework

Object Oriented Programming, Data Structures and Algorithms, Machine Learning, Mathematical Statistics, Optimization, Regression Analysis, Linear and Abstract Algebra

Experience

Jan 2021 - The Looma Project
Jul 21 *Data Science Intern*

- Did data analysis of videos with Google Cloud Platform APIs, scikit-learn and python video libraries to provide insights on advertisement effectiveness. Built a system to automatically aggregate and transform information about a video from multiple APIs.

May 2018 - Renaissance Computing Institute
Aug 20 *Software Engineering Intern*

- Worked with a collaborative, hybrid-remote team of researchers in a medical informatics project as part of the NIH Biomedical Data Translator program.

- Wrote central production code and algorithms to generate high dimensional patient data from REST APIs. Developed novel statistical methods for approaching missing data. This work resulted in multiple publications.

- Developed front end software using React and Neo4j to present information about graphs and networks to users. Debugged server code.

Publications and Projects

- *HackDuke 2021.* Won 2nd place out of 32 in the education for social good category for the project 'Classroom Pulse'. Built in Javascript and Node.js, it was based around modelling student knowledge to help teachers handle varying skill levels in the classroom.

- *Application of MCAT questions as a testing tool and evaluation metric for knowledge graph–based reasoning systems.* Clinical and Translational Science 2021 Mar 20.

- *Open application of statistical and machine learning models to explore the impact of environment exposures on health and disease: an asthma use case.* IJERPH. Under Review.

- *Predicting Online Shopper Intentions.* Machine learning project done for a class. patlsc.github.io/565.pdf

Skills

Experience with Javascript and C# for application programming. Experience with Python and R for data science. Proficient with HTML, CSS, LaTeX, SQL.