

Lauren Knespler

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EDUCATION

Stony Brook University

Stony Brook, NY

BS in Applied Mathematics & Statistics (GPA: 3.49)

Minor in Computer Science

Graduation Date: August 2021

- Programming in Python, Java, Javascript, R, SAS, Ruby, OCaml, and Unix.
- Courses: Applied Linear Algebra, Survey of Probability and Statistics, Statistical Laboratory, Introduction to Quantitative Finance
- Relevant Computer Science Courses: Fundamentals of Software Development, Foundations of Computer Science, Programming Data Structures, Programming Abstractions, Introduction to the Theory of Computation

PROJECTS

Fundamentals of Software Development - Database project

Location

Student

Fall 2020

- Created a database consisting of Stony Brooks computer science course catalog using a csv.
- Programmed in HTML, CSS, SQL, and Javascript to construct a webpage where a student could search for classes based upon several fields. For each class tables were created, which presented relevant information regarding the course.
- Students were then able to save classes to another table in the database, which was used to display an organized schedule on another webpage.

Fundamentals of Software Development - Final Project

Stony Brook

Student

Fall 2020

- Participated in creating a simplistic user interface design utilizing HTML, CSS, SQL, and Javascript.
- Collaborated with a small team of students to design and implement a database using MySQL and Node.js. This database was intended for employees of a corporation to check their covid test results.
- Lab technicians were able to sign in and update information regarding these tests along with performing procedures like pool mapping and well testing.

Scripting Languages - Library Project

Stony Brook

Student

Fall 2020

- Developed a library management application hosted on the web with Ruby on Rails. This application was intended to be accessed by both administrators and patrons who could update the database.
- Administrators were able to add, search, edit, and checkout books. Error messages were displayed if an administrator attempted to add or edit a book with the improper format.
- Patrons were able to search for books, add reviews, and view previous reviews.
- The search procedure could be performed utilizing one or more of these fields: title, author, and ISBN.

LEADERSHIP EXPERIENCE

Volunteer

Centereach/Selden

Private Tutor

2015-2018

- Tutored students in mathematics, science, and history throughout high school and college.
- Worked one-on-one with students and created custom plans tailored to their needs.
- Prepared students for the SATS/ACTS, AP examinations, college entrance exams, and college level math and science courses.

Middle Country Sports Association

Centereach/Selden

Coach

2015-2018

- Coordinated with parents, coaches, and league officials regarding schedules.
- Instructed and advised players.
- Demonstrated leadership by encouraging players to work together and keep good morale.
- Organized activities and plays.

SKILLS & INTERESTS

Skills: Proficient in writing SQL queries to further analyze and interpret data. Create data visualizations utilizing Google Sheets, Tableau, and Power Bi. Analyze data by performing statistical techniques in R, SAS, and Excel. Experience programming in Python, Java, Javascript, HTML/CSS, and Ruby.

Interests: Music | Photography | Stock Market | Technology | Fitness | Basketball