Kevin Lee

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EDUCATION

DUKE UNIVERSITY **Durham, NC**
GPA: 3.90 *August, 2023 - Present*
Major: Computer Science
Minor: Statistics
Relevant Courses: **Data Structures and Algorithms, Computer Architecture, Introduction to Database Systems**

RELEVANT EXPERIENCE

Duke Office of Information and Technology (OIT) Software Engineer Intern *May 2024 - Present*

- Collaborated with a team of five to create a **Cisco, National Science Foundation (NSF), and Duke OIT-sponsored full-stack project from scratch** to engineer a solution to efficiently extract and display trillions of rows from an Amazon S3 (https://mistral-plus.security.duke.edu/)
- Developed a **RESTful API** that leverages advanced indexing, relational database techniques, and caching to optimize query performance for a web platform to present data to outside researchers
- Includes Duke SSO for security and comprehensive search logic to support complex search queries
- Technologies used: **Python (Django framework), Javascript (React Library), HTML/CSS, Docker, Git, SQLAlchemy, MySQL**

Duke University Nanomaterials and Thin Films Lab Member *August 2023 - Present*

- Used Python and Autodesk Fusion 360 to automate calculations to miniaturize and optimize a mass spectrometer magnet model sent to NASA as part of the lab's report

Harris Teeter Produce Clerk *April 2023 - August 2023*

- Greeted and conversated with hundreds of customers daily; presented with a customer service award

ACADEMIC/PERSONAL PROJECTS

Food Ordering Full-Stack Project *December 2023*

- Full-stack project functioning as a platform for online ordering and restaurant reviews
- Implements a backend RESTful API to store customer and restaurant information and incorporates features from Spring Security
- Technologies used: **Java (SpringBoot framework), Javascript (React Library), HTML/CSS (Tailwind framework), Stripe Payment, MySQL**

Machine Learning Regression Models *November 2023*

- Performed data wrangling, polynomial regressions, tree regressions, and ensemble algorithms on Fantasy Football data and NSF-gathered data on coalition governments
- Technologies used: **Python (scikit-learn, pandas)**

SKILLS

- **Software:** *(proficient):* Java/Spring, Python/Django, Git, HTML/CSS, Javascript/React, R, Jupyter Notebooks *(familiar):* C++, SQL, Docker, Autodesk Fusion 360, Figma, Postman