Jex Pearce

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Palo Alto, California & Durham, United Kingdom| Linkedin | Portfolio | Github

SUMMARY

Aspiring Mathematics student with a solid foundation in Javascript, Python, and SQL, seeking a data science/analysis internship opportunity to apply and expand skills in real-world scenarios. Through my experience utilizing Python within previous projects to manipulate and explore data, I have cultivated a keen interest in contributing to data-driven decision-making processes.

SKILLS

Programming Languages: Javascript, Python, R
Other Tools and Frameworks: Jupyter, Pandas, React.js, HTML5, CSS, SQL
Skills: Linear Algebra, Calculus (I - IV), Cocalc, Excel, Sci-kit, ML Algorithms, Mandarin, Spanish

EDUCATION

Durham University, Durham, United Kingdom
Bachelor of Science in Mathematics
- Graduation date of June 2025
- Related Modules chosen for next year: Statistical Inference, Mathematical Modelling, Statistical Modelling, Data Science and Machine Learning, Geometric Topology, Complex Analysis, and more

Henry M. Gunn High School, Palo Alto, California
Five Advanced Placement scores of 5,5,5,4,4 including Mathematics, Economics, Psychology

PROJECTS:

The following projects are entirely self-directed out of my own initiative

Silicon Valley Housing Prices Prediction: [Silicon Valley Housing](Silicon%20Valley%20Housing)

August 2023

Python, SQL, Pandas, Jupyter, Sci-kit, Random Forest, Seaborn
- Utilized a combination of Python, SQL, Pandas, Jupyter, Sci-kit Learn, and Seaborn to conduct an in-depth exploration of housing price trends in the Silicon Valley region
- Implemented a Random Forest regression model to predict housing prices based on historical data

Nutrition Projects: [Meat Nutrition](Meat%20Nutrition), [Fruit Nutrition](Fruit%20Nutrition), [Vegetable Nutrition](Vegetable%20Nutrition), [Seafood Nutrition](Seafood%20Nutrition)

August 2023

Python, SQL, Pandas, Jupyter, Sci-kit
- Employed data manipulation techniques to extract meaningful insights from intricate nutritional datasets
- Utilized Linear Regression modeling in Meat Nutrition to extrapolate and predict nutritional values for foods with incomplete data entries

Hurricanes in the Caribbean: [Caribbean Hurricanes](Caribbean%20Hurricanes)

September 2023

Python, Pandas, Seaborn, Sci-kit, Geographs
- Analyzed extensive hurricane data dating back to the early 1900s, employing various aforementioned tools to correlate their patterns with climate change.

Portfolio Website: Portfolio

July 2023

Javascript, HTML, CSS
- Developed a portfolio website using HTML, CSS, and Javascript through VS Code
- Adeptly tuned to mobile devices, utilizes Javascript for multimedia content

OTHER

Gap Year Volunteering (2022): Healthcare Assistant in Panama, Environmental conservation in Belize
Hobbies and Activities: Alto Saxophone, Long Distance Running, Weightlifting, Nutrition, Leetcode, Learning C++