

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/ML/Modelling 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, Novice Mandarin, Spanish

EDUCATION

Durham University, Durham, United Kingdom

Mathematics, BSc: Current overall grade: 71%

- Related Modules chosen for next year: Fluid Mechanics, Partial Differential Equations, Mathematical Biology

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:

Modelling Numerical Waves in Vpython: [Wave Propagation](#)

August 2024

VPython, HTML, CSS

- Used VPython to simulate mathematical models of sinusoidal waves using the numerical Central Differences method

Silicon Valley Housing Prices Prediction: [Silicon Valley Housing](#)

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](#), [Fruit Nutrition](#), [Vegetable Nutrition](#), [Seafood Nutrition](#)

August 2023

Python, SQL, Pandas, Jupyter, Sci-kit

- My first project. 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

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: Fully qualified & registered sailor, traveling, long-distance running, weightlifting