Katherine Brown

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Summary:
I have my bachelor's in Biochemistry and want to specialize in Bioinformatics to study epigenetic noise. Skills include both wet lab techniques and programming. Excited to apply the newest computational developments to biological problems.

Work experience:
- Projects on GitHub; GC calculator, CpG site finder, and atomic weight calculator
- Orchid tissue culture at Odom's orchids | 8/24-to present
- AI tutor at outlier | 6/24-to present
- Three semesters of research as an undergraduate in Alzheimer's disease research | 1/19-3/20

Skills:
- Biochemical background, familiarity with NCBI, as well as its databases and tools
- Python skills with packages such as NumPy, Matplotlib, Pandas, and SciPy
- Code editors; PyCharm, Jupyter notebooks, Google colab, Visual studio and IDLE
- Can use Git for version control
- Machine learning packages such as scikit-learn and AI models
- Quantum computer knowledge with Qiskit and QASM
- Quantum computational chemistry is a field I am interested in
- Molecular biology lab techniques; PCR, Gel Electrophoresis, and mini-prep
- Chemistry lab techniques; recrystallization, and NMR Spectroscopy
- Orchid tissue culture and sterile hood experience
- Currently learning Japanese

Education:
- Johns Hopkins | Genomic Data Specialization | 10/2024 to-present
- UCF | Introduction to Python 3 Programming | 6/2024
- MIT xPRO | Quantum Algorithms for Cybersecurity, Chemistry, and Optimization | 12/2023
- MIT xPRO | Introduction to Quantum Computing | 10/2023
- Ave Maria University | Immokalee, FL | Bachelor of Arts in Biochemistry | 08/2020