

Alexander T. Ripperton

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UC Berkeley Class of 2021

- Major: Molecular Environmental Biology
- Emphasis: Data Science/Genetics
- Related Coursework: Computational Structures in Data Science | Survey of the Principles of Biochemistry and Molecular Biology | Methods of Mathematics: Calculus, Statistics, and Combinatorics | Chemical Structure and Reactivity | Organic Chemistry Laboratory | Foundations of Data Science

Programming Skills

- Python | MongoDB | R | SQL | Azure | Java | Docker | Pandas | Numpy | Sklearn | Microsoft Excel

Work and Internship Experience

Software Developer | HCL Technologies | June 2021– Present

- Working with Lumen Technologies as a member of the Data Engineering AIOPS team where I use python scripting to automate recovery actions for our MongoDB
- Built a NLP machine learning model that predicts the problem category of a given customer agent incident description using naive bayes classification.
- Worked as a member of the Apple Engineering and R&D Services team where I built and deployed demo web applications using Java, Spring Boot, Docker and Kubernetes.

Data Management Intern | HCL Technologies | January 2021– April 2021

- Developed my skills in Azure Data Factory, SQL, and Azure Data Catalog as my team and I worked on a retail use case to optimize sales and customer satisfaction through Data Engineering.

Undergraduate Research Fellow | University of California Berkeley | August 2018 - May 2021

- Received a \$5,000 grant to conduct an independent Bioinformatic research project
- Wrote shell scripts that ran through the Lawrence Berkeley National Laboratory computer servers in order to analyze computational intensive RNA-seq data sets, and found differentially expressed genes involved in copper tolerance using statistical packages in R

Operations Assistant | Innovative Genomics Institute | September 2018 - May 2020

- Prepared the main conference room for scientific presentations at the Innovative Genomics institute
 - Co-leader and organizer of the Undergraduate CRISPR Journal Club where I present papers in the field of gene editing to an audience of undergraduates
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Interests

- Surfer, Backpacker, Freeride skier, Electric Guitar