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# Jonathan Ferrari

## Skills Summary

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**Code Languages:** *Expert* in Python, SQL, RegEx, R, Java, Julia | *Proficient* in VBA, Lisp, Zsh  
**Hard Skills:** *Mathematical Proficiency* in Calc 1, 2, 3, Linear Algebra, Discrete Math, and Advanced Statistics and Probability | Clustering, Classification, Random Forests, Linear, Ridge, Lasso, Non-Linear, and Logistic Regression | Data/Software Engineering | Data Wrangling, Cleaning, Standardization, Normalization  
**Soft Skills:** Efficient Communication | Adaptability & Flexibility | Organizational Ability | Critical-Thinking | Simple and Creative Problem Solving | Effective Time Management | Self-Starter | Attention to Detail | Curiosity

## Education

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**UC Berkeley, Class of 2024** | **Majors:** Data Science, Cognitive Science, Psychology  
**Units:** 116.2 | **GPA:** 4.0 GPA (on 0-4 scale) | **Honors to Date:** Fall 2020 - Spring 2022 |  
**Dean's List (top 10%):** Fall 2020 - Spring 2022 | **Organizations:** Data Science Modules Development, National Society for Leadership and Success, Bears for Financial Success, Sigma Alpha Pi Honor Society

## Experience

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### Data Analyst Intern | Liberty Mutual May-Aug 2022

Work with SQL in Snowflake, SAS, Jupyter to efficiently query massive databases with over 60B entries  
Employ robust distributed computation, storage, and data processing to build intuitive classification models to recommend concrete business strategies in unique geographical regions in the U.S.  
Create project scaffolding to increase further computational efficiency and decrease operational costs  
Employ Partial Component Analysis, along with Agglomerative Clustering, Random Forests, and Multiple Linear Regression to build models to drive profitability and growth of business

### Curriculum Development Team Lead | UC Berkeley Jan 2022-Present

Coordinate with professors to develop and enhance curriculum that is in line with their learning objectives for the course  
Manage teams of developers using project management skills and software  
Develop and create curriculum for various campus departments  
Work alongside professors and faculty to manifest their visions of lessons using data science  
Introduce data science and python to 500+ students in courses such as Integrative Biology  
Plan and create lesson for Environmental Studies class taught abroad in French Guinea

### Computer Algorithms Undergraduate Instructor | UC Berkeley Dec 2021-Present

Contribute to managing logistics such as exams and answering content questions for 1600+ students  
Instruct a section of the course to confirm students understand material from the past week  
Work alongside Professors to craft content to fit the learning objectives of the course as well as so that students learn from completing projects