

**MACKENZIE LINDHOLM**  
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## **SUMMARY OF EXPERIENCE**

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UCLA Senior majoring in Statistics, Data Science, and Cognitive Science with experience in programming languages (Python, R, Java, and C++) and advanced data analysis tools (Pandas, Tidyverse, NumPy, and Matplotlib). Expertise in building predictive models, analyzing datasets, and creating data visualizations to uncover trends and correlations. Talent in automating data processing workflows, developing statistical functions, and enhancing database organization to improve efficiency. Strong leadership skills demonstrated in managing operations, training employees, and improving service quality. Proactive, detail-oriented, and driven to solve complex problems using data-driven solutions. Excellent communicator with demonstrated success in team collaboration, leadership development, and presenting complex findings to diverse audiences.

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## **SKILLS**

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**TEAM LEADERSHIP & COMMUNICATION:** Data Management, Feature Engineering for Large Datasets, Project Management, Adoption of Emerging Tools & Technologies, Programming Languages, Data Analysis & Reporting, Predictive Modeling, Advanced Data Visualization, Statistical Techniques & Analysis, Process Automation

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## **PROFESSIONAL EXPERIENCE**

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| <b>SIEMENS HEALTHINEERS (VARIAN)</b><br><b>Product Verification Engineering - R&amp;D Intern</b>  | Palo Alto, CA<br>June – Sept. 2025     |
| ● Pipeline Development: Designed and implemented batch pipelines to routinely verify software and system features, ensuring consistent high-performance quality of medical devices  |  |
| ● Test Automation: Developed automated test cases for system and software validation to enhance testing efficiency and minimize errors associated with manual processes   |  |
| ● Test Case Development: Created a comprehensive test cache integrated with the pipeline to detect changes and maintain stable system functionality   |  |
| <br><b>HARMAN INTERNATIONAL - UCLA Epicenter</b><br><b>Business Technology Consultant</b>   |  |
| ● Database Development: Designed and implemented a client-focused database solution enabling automated population and extraction of customer information; integrated clustering algorithms and public datasets to build comprehensive customer profiles | Los Angeles, CA<br>April – June 2025   |
| ● Competitor Research: Conducted extensive research on competitor marketing strategies; utilized public data and analytical techniques to identify market gaps and areas for competitive advantage  |  |
| ● Client Presentation: Presented a data-driven solution model to a panel of client executives, showcasing the system's architecture, research methodology, and the application of clustering algorithms to enhance customer targeting and segmentation  |  |
| <br><b>LANDIFY ECT</b><br><b>Data Analytics Intern</b>  |  |
| ● Automated Data Analysis: Designed and implemented a program to streamline the analysis of over 50 pages of raw laboratory data, reducing manual processing time by at least 10 hours per week and enhancing operational efficiency                    | San Francisco, CA<br>June – Sept. 2024 |
| ● Data Reporting: Developed advanced statistical functions to filter, categorize, and synthesize complex datasets, delivering more concise accurate, and actionable reports for improved decision-making  |  |
| ● Optimized Client Database: Constructed and refined a comprehensive clientele database, significantly improving the Sales Team's ability to identify and engage high-potential leads, driving strategic growth opportunities                           |  |

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## ACADEMIC PROJECTS

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### UCLA STATISTICS AND DATA SCIENCE DEPARTMENT

Los Angeles, CA

#### Python with Applications I

- Predictive Modeling and Statistical Analysis: Constructed advanced predictive models for large datasets utilizing Python, employing linear regression, mean squared error, and other statistical metrics to evaluate model performance and accuracy
- Data Visualization and Trend Analysis: Designed and implemented detailed 2D and 3D data visualizations to effectively illustrate trends, patterns, and correlations derived from regression models
- Model Training and Validation: Trained datasets and tested model validity against real-world data, refining accuracy and ensuring models aligned with practical applications

#### Statistical Programming with R

- Data Preparation and Quality Assurance: Curated and cleaned complex datasets to ensure precision and reliability, laying a strong foundation for accurate statistical analysis
- Advanced Data Visualization: Executed large-scale data analyses, creating custom, color-coded plots and graphs to effectively communicate relationships and insights within the data
- Statistical Analysis and Evaluation: Applied advanced statistical functions to measure correlation, variance, and other key metrics, producing a comprehensive understanding of dataset dynamics
- Quantitative Efficiency Analysis: Leveraged quantitative data to assess results, demonstrating increased analytical efficiency and effectiveness through robust statistical programming

#### Statistical Programming with R

- Data Importation and Testing: Imported and processed large datasets to evaluate correlations and variance across randomized variable groups, ensuring robust statistical testing
- Statistical Function Development: Recreated and applied advanced statistical functions to establish a solid foundation for precise and meaningful data analysis
- Feature Engineering and Comparative Visualization: Utilized feature engineering techniques to organize large datasets by key distinguishing factors, creating detailed plots to compare and interpret results effectively

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## TECHNICAL SKILLS

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Programming Languages: Java (Advanced), R (Advanced), Python (Intermediate), C++ (Intermediate), Jupyter

Data Analysis Tools: Pandas, Tidyverse, LaTeX, NumPy, Matplotlib

Design Software: Adobe Illustrator, Adobe Photoshop, Adobe InDesign

Productivity Software: Microsoft Office Suite (Word, Excel, PowerPoint), Google Suite (Drive, Docs, Sheets, Slides)

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## EDUCATION

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### UNIVERSITY OF CALIFORNIA (UCLA)

Los Angeles, CA

Bachelor of Science: Statistics and Data Science

Exp. Grad 2026

Bachelor of Science: Cognitive Science

GPA 3.7, Dean's Honor List

Relevant Coursework: Programming in Computing (C++ and Python), Statistical Analysis (R), Linear Algebra, Multivariable Calculus and Applications, Psychological Statistics, Graphic Design with Honors (3 Years)

Activities: Kappa Kappa Gamma Sorority Executive Board Director, Ski and Board Club, Intramural Sports, Community Volunteering

### CARLOS III UNIVERSITY OF MADRID – STUDY ABROAD, Fall 2024

Madrid, Spain