

# Robert Lewis

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## EDUCATION

### University of California, Los Angeles (UCLA)

Bachelor of Science in Statistics and Data Science

June 2023

## TECHNICAL SKILLS

**Operating Systems:** Linux (Ubuntu, CentOS, Red Hat), Windows (10, 11, Server 2019), macOS

### Programming Languages & Frameworks:

**Frontend:** HTML (HTML5), CSS (CSS3, TailwindCSS), JavaScript (ES6+, React.js, Next.js)

**Backend:** Python (Django, Flask), Java (Spring Boot), Node.js (Express.js, Nest.js), SQL (MySQL, PostgreSQL)

**Mobile Development:** React Native, Expo

### Data Engineering & Management:

**Tools & Technologies:** Apache Hadoop (HDFS, YARN), Apache Spark, Apache Kafka, Docker

**Cloud Platforms:** AWS (S3, EC2, EMR, RDS, Lambda)

**Databases:** NoSQL (MongoDB), NewSQL (Google Spanner), Relational (PostgreSQL, SQLite)

### Data Science & Machine Learning:

**Data Analysis & Visualization:** Python (NumPy, Pandas, Matplotlib, Seaborn), R (tidyverse, ggplot2), Tableau, Power BI

**Machine Learning:** Python (Scikit-learn, TensorFlow, PyTorch)

**Web Development Tools & Technologies:** MDX, Vite

**Development Tools & Collaboration:** Git (GitHub), LaTeX

## EXPERIENCE

### Data Science Research Assistant

January 2023 - June 2023

University of California, Los Angeles

Los Angeles, CA

- Collaborated with a research team to analyze property records using Python and R, uncovering policy insights
- Discovered a 55% correlation between financial strain and voting patterns, enabling targeted outreach strategies
- Designed Tableau and Seaborn visualizations to facilitate data-driven decisions and improve resource allocation
- Optimized data pipelines and deployed ML models, reducing processing time by 30% for real-time analysis

### Data Engineer Internship

May 2020 - October 2020

Wizeprep

Los Angeles, CA

- Developed a Python and SQL tracking app with the data engineering team, increasing data precision by 35%
- Optimized SQL query performance, reducing data access time by 20% and improving operational efficiency
- Collaborated on implementing data visualization tools, increasing user engagement
- Contributed to agile development, boosting client satisfaction and reducing development time

## PROJECTS

### AI Text Detector | Python, Django, TensorFlow, Docker, AWS, SQLite

July 2023 – Present

- Developed a web service to detect GPT-3.5 text, addressing the need for identifying AI-generated content
- Achieved 84% accuracy using TensorFlow, creating a seamless API with Django REST Framework and Docker
- Deployed the service on AWS EC2 instances with Docker, ensuring high availability and responsive performance
- Optimized backend efficiency through Django caching and SQLite database indexing strategies

### League of Legends Win Predictor | Python, scikit-learn, Flask, React, PostgreSQL

March 2023 – Present

- Collaborated to create an ML-based tool that predicts the outcome of League of Legends games with high accuracy
- Built a Gradient Boosting model with 76% accuracy using scikit-learn, processing 22K+ records from Riot API
- Developed a React web app with a Flask backend API for users to access real-time win probability predictions
- Improved overall model accuracy by 4% in 2 months through feature engineering and regularization