Carlos Daniel Rivera Lao

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EDUCATION

University of Southern California   Aug 2019 - May 2023
B.S. Computer Science, B.A. Linguistics   *Magna Cum Laude*
- **Awards:** Dean's Scholarship, Academic Achievement Award, Dean's List
- **Thesis Topic:** Observing Phonological and Morphological Changes of Spanish Borrowings into Filipino
- **Relevant Coursework:** Software Engineering, Algorithms and Theory of Computing, Cryptography, File and Database Management, Internetworking, Natural Language Processing
- **Organizations:** Phi Beta Kappa Honor Society, Breakthrough Hip-Hop, Musical Theatre Repertory

EXPERIENCE

Linguistic Data Analyst   Sep 2023 - Present
Meta   *Remote*
- Stress tested various LLM models across the entire spectrum of risk categories to expose vulnerabilities
- Annotated 400+ high-quality data points weekly for downstream ingestion such as retraining/hot-fixing
- Discussed methods to continuously improve data quality and productivity in daily meetings

Software Engineer Intern   Jun 2023 - Sep 2023
Paywake (HTML/CSS, Vanilla JS, React Native, AWS)   *Los Angeles, CA*
- Designed and implemented the customer referral system, boosting DAUs by over 100%
- Developed full-stack solutions for internal user/data management and debugging tools for engineers
- Created and refactored cross-platform UIs for FAQs, referrals, and the home page
- Collaborated with cross-functional teams to troubleshoot and resolve technical issues

Computer Science Instructor   May 2020 - Aug 2021
CS@SC Summer Camp (Python)   *Los Angeles, CA*
- Taught object-oriented programming concepts to students in elementary through high school
- Supervised and assisted in a hackathon for over 100 participating students
- Implemented curriculum revisions and improvements in coordination with fellow staff and administrators

Research Mentee   Feb 2021 - May 2021
Google (Python, Jupyter Notebook)   *Remote*
- Conducted in-depth literature reviews analyzing various scholarly papers within the domain of NLP
- Contributed to graduate-level research creating tools for data scraping and ASL translation
- Collaborated with a mentor in biweekly meetings to improve research quality and discuss industry methods

RECENT PROJECTS

setUP for Spotify
Web Application (React, Express.js, AWS)   *Sep 2023*
- Designed and implemented a web application to create a Spotify playlist for any given concert set list
- Created a REST API middleware using AWS Lambda to allow the front-end to interface with external APIs

University Subleasing
Mobile Application (React Native, AWS Amplify)   *May 2023*
- Designed and built an application to facilitate subleasing for university students
- Collaborated with business partners to discuss upcoming sprints to improve and extend functionality

SKILLS & INTERESTS

Programming Languages: Python, Javascript, HTML/CSS, C/C++, Java, Swift, SQL, PHP, GraphQL

Frameworks/Technologies: React/React Native, Firebase, AWS, Express.js, MongoDB, NodeJS, OpenCV, Keras, REST

Linguistics Skills: Phonetics, Phonology, Morphology, Syntax

Languages: Bilingual fluency in English and Tagalog, Professional proficiency in Mandarin, Spanish, and American Sign Language

Interests: Web Development, Mobile Development, Computational Linguistics, Environmentalism