Carlos Daniel Rivera Lao

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EDUCATION

University of Southern California — Aug 2019 - May 2023
B.S. Computer Science, B.A. Linguistics — *GPA: 3.75/4.00*
- **Awards:** Magna Cum Laude, 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 (Internal Tools, React, AWS) — *Remote*
- Created and deployed a React chrome extension for red teamers to track productivity and monitor task updates
- 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

Software Engineer Intern — Jun 2023 - Sep 2023
Paywake (HTML, CSS/SASS, VanillaJS, React Native, AWS) — *Los Angeles, CA*
- Designed and implemented a robust customer referral system, boosting DAUs by over 100%
- Developed core internal tools for human photo verification, banning users, editing site content, and debugging
- Programmed and refactored customer-facing, cross-platform UIs for FAQs, referrals, and the company home page, bolstering performance, ensuring cost-effective API usage, and facilitating retroactive maintainability
- Collaborated with cross-functional teams to troubleshoot and resolve technical issues

Research Assistant — 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 — Sep 2023
Web Application (React, Express.js, AWS)
- Deployed a fully-responsive React web application to automate Spotify playlist generation for any given concert set list
- Engineered an extendable RESTful middleware using Express.js microservices hosted on AWS Lambda, allowing the frontend to interface with the external Spotify and setlist.fm APIs through cross-origin requests

University Subleasing — May 2023
Mobile Application (React Native, AWS Amplify)
- Developed a React Native application to serve as a platform for university students seeking to sublease their property
- Designed a robust and scalable backend using AWS Amplify to create custom authentication flows, host a large-scale GraphQL API, store and retrieve binary files, and provide real-time data updates for a seamless user experience
- Collaborated with a non-technical business partner to discuss development progress and plan upcoming sprints

clubSC — Dec 2020
Web Application (React, Spring Boot, Bootstrap)
- A React application for university students to search for and join clubs, and monitor club announcements
- Designed and rapidly implemented a fully-responsive, custom frontend using React and Bootstrap
- Integrated locally-hosted Spring Boot microservices with the frontend independently using Postman and Axios

SKILLS & INTERESTS

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

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

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, Sustainability, Music