

Jose Castillo Lee

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Education

California State University, Northridge

May 2025

Bachelor of Science in Computer Science

Northridge, CA

- **Relevant Coursework in** Data Structures, Algorithm Design and Analysis, Software Engineering, Networks & Security, Computer Architecture and Hardware

Experience

Entertainment Partners

Jun 2024 – Aug 2024

Software Engineer Intern

Burbank, CA

- Collaborated with 4 software engineering managers to design, develop, deploy, and maintain a desktop and web application for a complex Spring REST API engine to handle sick leave accrual plans for each state
- Project increased accounting efficiency for a team of 7 by 85% and reduced time to production by over 37% resulting in developers' time savings of \$88,000 yearly.
- Developed and optimized CI/CD pipelines using Jenkins and Spinnaker and assisted in AWS Cognito integration.
- Performed unit tests and data validation using Jest and advised back end engineers on augmenting existing endpoints for better performance reducing development time by 11%.

Los Angeles County Museum of Art

Sep 2022 – Mar 2023

Software Intern

Los Angeles, CA

- Implemented a dashboard to track detailed activity across thousands of work orders, saving time by up to 2 hours weekly for a team of 12 and reducing costs by 20%.
- Migrated help desk software for LACMA to efficiently schedule maintenance for a 100% response rate for undertaking system critical tasks and implemented fallback protocols so up-time is maintained.
- Created extensive documentation and instruction for system administrators on migrated software and solutions to common problems and tasks.

Projects

Agricultural IoT and Machine Learning Platform | Arduino, LoRaWan

- Oversaw design and solely responsible for the construction of an Arduino micro controller with LoRaWan and GPS capability to measure ambient light, temperature, soil pH and moisture.
- Collaborated in a team of 18 students to develop a dashboard to display data collected in a functional manner.
- Developed machine learning algorithms with team to correlate them with plant sickness and crop growth

Spotify Remix - Recommender System | NumPy, Pandas

- Developed efficient data pipelines with Pandas, enhancing data transfer from Last.fm to a content based recommender model I designed using matrix factorization and cosine similarity.
- Utilized Spotify's Developer API to enhance song matching within the model, optimizing song recommendations.

Shakespeare NLP Model | Numpy, NLTK

- Trained a natural language processing model on 40,000 lines of Shakespeare's texts to mimic Shakespeare's writing when prompted a question.
- Utilized Term Frequency-Inverse Document Frequency to vectorize the user's input and uses cosine similarity to generate a cohesive response from the dataset.

Skincare Ecommerce | React.js, Bootstrap, Spring Boot, Stripe, Axios, MongoDB

- Led the development of a fully responsive full stack website revolving around skincare products.
- Site employs a Spring API that retrieves images stored in AWS S3 and items in a MongoDB to reduce client-side load.
- Included integration with APIs for Google Maps (location), Stripe (payment), and Whisper (translation).

Technical Skills

Languages: C++, Java, JavaScript, Python, SQL, Go

Technologies: Git, React, Electron, Node.js, Spring Boot, Bootstrap, Axios, MongoDB, DB2, MYSQL, PostgreSQL, DBeaver, Google Cloud, TensorFlow, AWS, Jira, Jenkins, Docker, Kubernetes, Yarn, NPM

Concepts: Cybersecurity, Machine Learning, Database Management, Data Analysis, CI/CD Practices, Cloud Computing, Software Development Life Cycle, Scrum and Agile techniques