ANDREW CRUZ

andrewcruz3@g.ucla.edu | 650-830-1183 | andrewcruz.tech

EDUCATION

University of California, Los Angeles (UCLA)   Los Angeles, CA
Mathematics of Computation, Bachelor of Science   June 2026
Activities: UCLA DevX (Project Developer), Undergraduate Business Society (Mentor Program)

WORK EXPERIENCE

Lockheed Martin   Sunnyvale, CA (Remote)
Software Engineer Intern   June 2022 - Present
- Developed REST API and GraphQL endpoints with Java Spring Boot and SQL to streamline access to manufacturing data, achieving a 90% increase in data retrieval efficiency
- Designed an automated API testing framework using JavaScript deployed via GitLab CI/CD pipeline to support quality assurance efforts, increasing system uptime by 35%
- Collaborated with client and engineering teams to develop a full-stack plugin using Java Swing, eQubeMI, and ActiveMQ to improve cloud integrations with modeling software

Retune | Startup   Los Angeles, CA
Full-Stack Developer   October 2023 - Present
- Designed and developed a music-sharing mobile application using React Native for iOS and Android
- Engineered a scalable backend API infrastructure using NodeJS and Express integrated with a MongoDB database to enhance data management and communication with the Spotify API
- Expanded collaboration with product and design teams to support functionality for 10,000+ potential users

Independent Research   Belmont, CA
Data Scientist   March 2020 - Present
- Performed predictive analysis across various domains (COVID-19, financial markets, professional sports, etc.)
- Compiled extensive datasets from online repositories, database queries, and independent web scraping efforts
- Developed supervised learning models and analyzed data trends using open-source Python libraries

PROJECTS

Social Investing App | Mobile Application   December 2023 - Present
- Developed a full-stack mobile application using ReactJS to build a social investing platform for retail investors
- Utilized Express and NodeJS to build robust backend data integrations with the Plaid API and store user information in a MongoDB database

MLB Attendance Analysis | Data Analysis   March 2022 - June 2023
- Developed supervised learning models with Python to perform regression analysis on MLB attendance data scraped from Baseball Reference using BeautifulSoup
- Achieved 90% accuracy predicting MLB attendance based on 15,000+ data points with a 70/30 testing split
- Hypertuned parameters with Sklearn and used Seaborn and Matplotlib to present data trends and predictions

Online Shopping Assistant | Web Application   October 2020 - January 2022
- Engineered a full-stack web application with ReactJS and NodeJS to help consumers organize purchases from online retail platforms (Amazon, Best Buy, etc.)
- Leveraged BeautifulSoup and server-side storage with Javascript to access and store product listings

SKILLS

Computer Programming: Java, Python, Javascript, API development, Web/Mobile development, C/C++, SQL, GraphQL, HTML/CSS/ReactJS, Java Swing, Postman, Databases, Git version control, Numpy, Pandas, Matplotlib
Interests: Tennis, Piano, Singing, CS education, Edtech, Fintech