

ANDREW CRUZ

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EDUCATION

University of California, Los Angeles (UCLA)

Los Angeles, CA

Mathematics of Computation, Bachelor of Science

June 2027

Activities: UCLA DevX, Undergraduate Business Society, Association of Chinese Americans, Tennis Club

Relevant Coursework: Data Structures and Algorithms, Machine Architecture

WORK EXPERIENCE

Lockheed Martin

Sunnyvale, CA (Remote)

Software Engineer Intern

Jun 2022 - Present

- Developed Java Spring applications and REST APIs for Lockheed Martin's cloud service integration unit
- Engineered REST API and GraphQL endpoints with Java and SQL, increasing data retrieval efficiency by 60%
- Designed an automated API testing framework using JavaScript to support quality assurance efforts
- Deployed API tests using Postman, GitOps, and Javascript, achieving a 35% increase in system uptime
- Utilized Java Swing, eQubeMI, and ActiveMQ to develop full-stack tools for internal engineering teams
- Collaborated closely with client teams to determine scope, requirements, and solutions for various projects

Retune | Startup

Los Angeles, CA

Full-Stack Developer

Oct 2023 - Present

- Designed and developed a music-sharing mobile application using React Native for iOS and Android
- Engineered a scalable backend infrastructure using NodeJS and Express for API route development
- Implemented a MongoDB database for data management and communication with the Spotify API
- Expanded collaboration with product and design teams to support functionality for 10,000+ potential users

PROJECTS

DocSwift Smart Scanner | Mobile Application

- Developed a full-stack mobile application using ReactJS and Django to build an AI-powered document scanner
- Utilized Express and NodeJS to build backend integrations with the GPT API and engineer specific requests
- Maintained a multifunctional optical character recognition system for document analysis with Tesseract

MLB Attendance Analysis | Data Analysis

- Engineered supervised learning models with Python to perform regression analysis on MLB attendance data
- Programmed a web-scraping script to extract 15,000+ data points from Baseball Reference using BeautifulSoup
- Implemented a Random Forest Regressor model with Sklearn to achieve 90% accuracy on a 70/30 testing split
- Utilized Seaborn and Matplotlib to present data trends and predictions with visually appealing graphics

Online Shopping Assistant | Web Application

- Developed a full-stack web application with ReactJS and NodeJS to improve online shopping organization
- Leveraged BeautifulSoup to access product listings from online retail platforms (Amazon, Best Buy, etc.)
- Implemented a server-side storage system with Javascript to locally store user information

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, Basketball, Spikeball, Music, Piano, Karaoke, Bruno Mars