

ANDREW CRUZ

andrew.cruz.2027@gmail.com | andrewcruz.tech

EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES

Mathematics of Computation, Bachelor of Science

Los Angeles, CA

June 2027

EXPERIENCE

LOCKHEED MARTIN

Software Engineer Intern

Sunnyvale, CA (Remote)

2022 - Present

- Develop frontend plugins with Java Swing and backend applications with eQubeMI and ActiveMQ to enable data transfer capabilities for manufacturing designs to Lockheed cloud services
- Wrote an automated API testing framework in JavaScript for a suite of eQubeMI data connectors configured to run via GitLab CI/CD pipeline
- Built microservice APIs with Java, GraphQL, and SQL to improve access to manufacturing data

COMPUTER SCIENCE CLUB, CARLMONT

Co-President

Belmont, CA

2021 - 2023

- Mentored 30 students in competitive programming with an emphasis on Python, Java, and C++
- Spearheaded exploration in frontend development, cybersecurity, blockchain, and artificial intelligence

PROJECTS

FANTASY SPORTS GAME ANALYSIS

2023 - Present

- Use Selenium WebDriver to scrape 1000+ fantasy sports contests everyday and record statistics across 10+ major sports leagues
- Implement data cleaning/analysis with Numpy and Pandas to generate over/under sports predictions

MLB ATTENDANCE ANALYSIS

2021 - 2023

- Utilized Beautiful Soup to scrape and organize 15000+ data points from Baseball Reference
- Achieved 90% accuracy predicting MLB attendance with a 70/30 testing split across 5 standard machine learning models and hyper parameterization with Sklearn
- Employed Seaborn and Matplotlib to present data trends and predictions

VIRAL TRANSMISSION WEB APPLICATION

2020 - 2021

- Developed an educational web application to visually model viral transmission with a frontend user interface built in HTML, CSS, and ReactJS

COMPETITIVE PROGRAMMING

2019 - 2022

- USACO Gold level (top ~10% internationally)
- ACSL Finals qualifier (placed top 250 internationally)

TECHNICAL SKILLS

PROGRAMMING LANGUAGES

- Python
- Java
- Javascript
- C/C++
- SQL
- GraphQL
- HTML/CSS/ReactJS
- Swing

SKILLS

- API development
- Data Structures
- Algorithms
- Postman
- Web development
- Databases
- Git version control
- GUIs