

ANDREW CRUZ

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EDUCATION

University of California, Los Angeles (UCLA)

Los Angeles, CA

Mathematics of Computation, Bachelor of Science | Cumulative GPA: 3.9/4.0

June 2026

Activities: UCLA DevX, DataRes Consulting, Association of Chinese Americans, Tennis Club

Relevant Coursework: Data Structures and Algorithms, Computer Organization, Discrete Structures

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%
- Deployed integration tests using GitOps, Postman, and Javascript, achieving a 35% increase in system uptime
- Automated server deployments to AWS using OpenShift, Kubernetes, and CI/CD pipelines with Docker
- Collaborated closely with client teams to determine scope, requirements, and solutions for various projects

HiddenUnderGround

San Mateo, CA

Software Engineer

May 2024 - Present

- Spearheaded content integrity efforts by building Express API integrations that reduced content-related issues by 90%
- Deployed a content moderation bot on AWS by instruction tuning open-source Transformer models with Pytorch
- Integrated the Stripe API into a robust backend framework to improve the payment flow for new customers
- Enhanced user experience by implementing new web application features with ReactJS and NodeJS

PROJECTS

DocSwift Smart Scanner | *React Native, Django, Python, Tesseract, NodeJS, Express, MongoDB, OAuth*

- Developed an AI-powered document scanner mobile application using React Native and Django
- Utilized Express and NodeJS to build backend integrations with the GPT API and engineer case-specific requests
- Used Tesseract and Python to implement an optical character recognition system for document analysis
- Implemented a MongoDB database for data management and integrated OAuth to improve the authentication flow

Grassroots News Aggregator | *ReactJS, Flask, Python, NodeJS, Express, Beautiful Soup, REST APIs*

- Built a custom news aggregator powered by large language models using ReactJS, NodeJS, and Flask
- Created backend routes with Express to manage REST API calls to GPT, Mistral, and Google Image Search
- Developed Python scripts with Beautiful Soup to find, synthesize, and credit relevant news articles

Chelle AI Chatbot | *Python, Pytorch, HuggingFace, LLMs, Pandas, Sklearn, Seaborn*

- Trained 3 large language models on a question-answer dataset with Pytorch, enhancing chatbot performance by 30%
- Utilized Python and Pandas to clean 90,000+ data points and organize the data into a 70/30 training-testing split
- Used Sklearn to measure scoring metrics and Seaborn to present model performance to the client team

TECHNICAL SKILLS

Languages: Java, Python, Javascript, C/C++, SQL, HTML/CSS, Typescript

Technologies: GraphQL, REST, Postman, Gitops, Kubernetes, OpenShift, Java Spring, Apache Maven, Pytorch, ReactJS, NodeJS, Flask, Django, MongoDB, Express, Docker, OAuth, React Native, Beautiful Soup, Hugging Face, LLMs, AWS