Andrew Garcia Leopold

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EDUCATION

California State University, Northridge Expected May 2028
Bachelor of Science in Computer Science, GPA: 3.68
Relevant Coursework: Advanced Data Structures and Algorithms, Computer Systems and Organization

TECHNICAL SKILLS

Programming Languages: Python, Java, SQL, JavaScript
Tools & Technologies: FastAPI, React, Git, MongoDB, Node.js, pandas, NumPy, MediaPipe, HTML/CSS

EXPERIENCE

Waste Management | Software Engineering Intern Feb 2025 – Present

- Built a waste-operations platform using Python, FastAPI, and MongoDB to track 40+ bins across a 500-unit pilot site, with JWT access control, contamination heatmaps, and compost-pail tracking surfacing insights that guided service planning and resident outreach
- Reduced waste-assessment time by 50% by replacing paper records with FieldSync, a mobile workflow connecting field photos, AI-assisted labeling, human review, Google Drive reports, and dashboard imports

NASA Partnered Research Center | Undergraduate Research Fellow Aug 2024 – Present

- Led a 5-person multidisciplinary team studying recycling behavior across a 500+ unit apartment community; coordinated 50+ site visits and outreach engaging approximately 1,000 residents and supporting distribution of 250 kitchen compost pails

LA-Tech.org | Software Engineering Intern Feb 2026 – May 2026

- Built a reusable Python pipeline processing retail datasets with 10,000+ rows, using pandas, NumPy, and fuzzy schema mapping to validate CSV/XLSX uploads, standardize inconsistent columns, clean records, and generate metadata for forecasting dashboards
- Reduced dashboard load time by 60%, from ~10s to 4s, by parallelizing API requests and adding a fast forecast path; implemented fallback handling to prevent crashes on small datasets

PROJECTS

Thrift Tinder | Data Engineer (Python, MongoDB Atlas) Jan 2026

- Developed an AI-powered thrift recommendation app in a 4-person team during a 24-hour hackathon, winning Best Use of MongoDB Atlas among 12 competing projects at a 300-participant event
- Built a Python web-scraping pipeline collecting 5,000+ Depop listings, extracting images, prices, brands, sizes, and URLs into MongoDB Atlas to power personalized recommendations

SignSpeak | Front-End Developer (Python, Node.js, React, MediaPipe) Feb 2026

- Built a React interface for a real-time ASL translation app, displaying live output from a Python MediaPipe pipeline that tracks hand and pose keypoints
- Integrated Gemini API text and audio features into the frontend, enabling translation into Gemini-supported languages

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

ACM | Treasurer Aug 2026 – Present

- Host LeetCode and Python workshops for 40+ members, building interview prep and programming skills

Citizen Science Club | President May 2026 – Present

- Led 15 student volunteers in a door-to-door food-waste diversion drive with Republic Services and LA Sanitation, reaching 385 Granada Hills homes, distributing 330 kitchen pails, and speaking with 126 residents

ColorStack at CSUN | Secretary Feb 2026 – Present

- Founding officer helping launch CSUN's chapter of ColorStack, a national nonprofit supporting Black and Latinx CS students in landing tech internships

Management Leadership for Tomorrow | Career Preparation Fellow Jan 2026 – Present

- Accepted into a selective 18-month professional development program that accelerates the career growth of emerging leaders through structured coaching, mentorship, and targeted skill-building
- Engage with leading partner organizations (e.g., LinkedIn, Bloomberg, and Deloitte) to gain industry exposure and insight into tech-talent pathways