

Carlos Anguiano

Education

Davis, CA

University of California, Davis

- **Major: M.S., Computer Science** (in progress)
- **Relevant Coursework:** Software Engineering, Advanced Algorithms, Program Verification, Performance Evaluation.

San Diego, CA

San Diego State University

- **Major: B.S., Computer Science, Summa Cum Laude**
- **Accomplishments:** 2025 Outstanding Undergraduate Student, Dean's List, 3.93 major GPA
- **Relevant Coursework:** Algorithms, Data Structures, Computer Networks, Database Theory, Computer Security, Cloud Computing, UNIX System Administration.

Employment & Research

Lead IT Student Analyst

San Diego State University IT Division

- **Responsibilities:** Provided on-demand support for 75,000+ active students, staff, and faculty. Provided technical support for issues relating to Google Workspace, Microsoft O365, Duo Mobile, Adobe Sign/Creative Cloud.
- **Contributions:** Resolved 4,000+ total technical support issues comprising 15.5% of all requests routed to the IT Division. Gained valuable insight into IT infrastructure management, SaaS platform administration and integration, and cross-directory account synchronization.

AI Research Assistant

AI4Business Research Lab

- **Responsibilities:** Conducted comprehensive literature review to examine current artificial intelligence landscape and inform experimental design. Explored the clustering capabilities of Large Language Models, specifically with applications to business contexts (e.g. document clustering).
- **Contributions:** Developed Python scripts to accomplish a number of Natural Language Processing tasks including text sanitization, tokenization, and n-gram frequency analysis.

Personal Projects

RollCall (Cloud-based Virtual Guestbook App)

- **Description:** Full-stack web application allowing users to create and manage virtual guestbooks. Supports secure user authentication, CRUD operations, and message moderation.
- **Tech Stack:** Python (Flask), HTML/CSS/JavaScript, SQL, Git/Github, Docker, Bash, Google Cloud Run
- **Contributions:** Designed system architecture. Established SQL schema and configured cloud database instance. Implemented database models with ORM Mappings. Configured Dockerfile for improved deployment. Created Bash scripts for simpler deployment. Established message moderation and user authentication features.

Chess Engine

- **Description:** Command-line chess AI model capable of playing chess at an approximate ELO of 2100+ (99th percentile). Supports runtime configuration of engine strength, game state, and move history (e.g. undo, pause).
- **Tech Stack:** C, Git/Github
- **Contributions:** Implemented alpha-beta pruning with quiescence search. Designed bitboards to map game state onto a single 64-bit integer. Integrated bitwise manipulation operations for efficient game state modification and evaluation. Configured makefile for simpler compilation, encouraging automation.

Skills

Programming Languages: Java, Python (proficient), C/C++, SQL, Bash, HTML/CSS/JS (familiar)

Technologies & Tools: UNIX, Git, (proficient), Docker, GDB, Google Cloud Platform (familiar)

References available upon request.