

# Daris Chen

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## EDUCATION

### University of California San Diego

*Bachelor of Science (B.S.) in Computer Engineering*

*San Diego, CA*

## WORK EXPERIENCE

### Lead Full-Stack Engineer

Aug 2025 – Present

*Groundwork Books*

*San Diego, CA*

- Led the build of a production e-commerce site with Next.js and Tailwind, integrating Square for live inventory, cart, hosted checkout, and order tracking across 4,000+ SKUs, hosted on Vercel.
- Implemented Redis-backed caching with component-scoped cache keys and batched inventory calls, and integrated a Pinecone semantic search with vector based discovery, reducing Square API pressure to obtain sub-200 ms query latency with 90% decreased API fetch times.
- Extended content features, including an Events page and an Instagram feed with recency-cached fetching and automated updates through Instagram API to keep the storefront fresh without excess requests.

### FishSense Artificial Intelligence Researcher

Feb 2025 – Present

*UCSD Engineers for Exploration (E4E)*

*San Diego, CA*

- Reproduced Measuring Laser Beams with a Neural Network's RRPN/ResNet-50 beam-profiling DNN by setting up its Detectron2/PyTorch codebase, running training & inference, and documenting a clean, reproducible setup.
- Adapted the model for fish head/tail detection with dual-laser baseline scaling to infer range/size, enabling pixel-to-centimeter conversion.

### Project Mensa LLM Evaluator Fellow (Contract)

Oct 2025 – Dec 2025

*Handshake AI*

*Remote*

- Annotated and ranked LLM outputs (instruction-following/safety/usefulness) to improve supervised and RLHF datasets; maintained high inter-annotator agreement (IAA) and data consistency.
- Performed QC/adjudication and codified edge cases into guideline updates during synchronous calibration sessions; consistently met throughput/accuracy SLAs within time-cap/AHT constraints.

### Software Engineering Intern

Jan 2025 – Sep 2025

*PersonifyApp.ai*

*Remote*

- Refactored feature leaderboard user interface using Next.js, Tailwind CSS, and Firebase, increasing user traffic by 15%; designed duplicate-detection logic in Firebase to clean the data pipeline.
- Built admin controls for approvals, rejections, and closures, and added vote-based ranking, category sorting, and search, cutting resolution time by 50% and reducing user interaction time by 20%.
- Collected and labeled 200+ top-college admission essays via manual scraping and Google Sheets; used an internal NLP tool to extract frameworks and summaries, enhancing content structure and discoverability.

## PROJECTS

### Mini-Stockfish Chess Engine | *Pygame GUI, Multithreading, PyTorch, NumPy, pandas*

Mar 2025 – Jun 2025

- Developed an end-to-end deep learning Python chess engine with minimax and alpha-beta pruning alongside book openings and tablebases; accelerated search 77.2% via Cython, cutting eval time from 1.1 ms to 0.25 ms.

### Stock Prediction AI | *PyTorch, Jupyter, NumPy, pandas, AdamW, CUDA*

Jul 2024 – Apr 2025

- Built an LSTM-based stock predictor using technical indicators (open/close, high/low, volume); processed a 28M-line dataset 30% faster and achieved a 22% increase in directional accuracy with a 15% boost in simulated ROI using VIX-weighted modeling.

### RedShift LLM Jailbreak | *Python, PyTorch, CUDA, Prompt Engineering*

Jan 2025 – Mar 2025

- Extended the Distract Large Language Models for Automatic Jailbreak Attack framework and integrated chain-of-thought prompting, broadening the attack space and increasing evaluation coverage by 67% across ChatGPT, Llama, Vicuna, DeBERTa, DeepSeek, Grok, and Gemma.
- Standardized and preprocessed adversarial prompt datasets with Python and PyTorch data loaders, and tracked evaluation metrics in Weights & Biases.

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C/C++, JavaScript/TypeScript, HTML/CSS, ARM Assembly, SQL, Verilog/SystemVerilog

**Libraries & Frameworks:** PyTorch, TensorFlow, CUDA, cuDNN, Transformers, NumPy, pandas, Matplotlib, Scikit-learn, Detectron2, tqdm, React, Next.js, Node.js, Express.js, Three.js, Svelte, Tailwind CSS

**Tools & Technologies:** Git, GitHub Actions, Docker, Linux, Jira, Jest, Puppeteer, OpenCL, Figma, VS Code, CodeMirror, Wandb, Jupyter, Hugging Face, Vercel, ESLint, Turbopack, OSM Nominatim, Open-Meteo, OpenStreetMap, Intel FPGA ModelSim

**Databases:** PostgreSQL, MongoDB, Upstash Redis, Firebase, Pinecone