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

Project Mensa LLM Evaluator Fellow (Contract) — Oct 2025 – Present
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.

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.

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