Daris Chen

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EDUCATION

University of California San Diego
Bachelor of Science (B.S.) in Computer Engineering — *La Jolla, CA*
Relevant Coursework:
Fundamentals: Data Structures and Object-Oriented Design, Theory of Computation, Software Engineering
AI & ML: Statistical NLP, Machine Learning: Learning Algorithms, Probabilistic AI Models
Systems & Parallel Computing: Operating System Principles, Parallel Computing

WORK EXPERIENCE

PersonifyApp.ai — Jan 2025 – Present
Software Engineering Intern — *Remote*
- Rebuilt feature leaderboard using Next.js, Tailwind CSS, and Firebase, increasing user traffic by 15%; implemented duplicate-detection logic in Firebase to clean the data pipeline.
- Introduced admin controls for request approvals, rejections, and closures, halving resolution times.
- Implemented vote-based ranking, category sorting, and search, 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.

UCSD Engineers for Exploration (E4E) — Feb 2025 – Present
FishSense Artificial Intelligence Researcher — *Remote*
- 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.

University of California, San Diego (CSE 110) — Mar 2024 – Jun 2024
Project Manager — *La Jolla, CA*
- Oversaw CI/CD pipelines, reducing deployment errors by 30% while ensuring scope, quality, and timeline adherence.
- Defined 50+ user stories with accurate estimates; launched 10+ core features across sprints.
- Optimized task allocation and backlog organization, accelerating key feature delivery by 25% and reducing completion time from four to three weeks.
- Led daily stand-ups and biweekly sprints, boosting team communication by 40% and delivery speed by 33%.

PROJECTS

RedShift LLM Jailbreak | *Python, PyTorch, CUDA, Prompt Engineering* — Jan 2025 – Mar 2025
- Expanded the Distract Large Language Models for Automatic Jailbreak Attack framework to evaluate vulnerabilities across LLMs s (ChatGPT, Vicuna, Llama, DeBERTa, DeepSeek, Grok, Gemma.
- Standardized and preprocessed adversarial prompt datasets using custom Python scripts and PyTorch data loaders; tracked evaluation metrics via Weights & Biases (WandB).
- Integrated Chain-of-Thought prompting to broaden the attack space, enabling analysis across four additional LLMs and expanding evaluation scope by 67%.

Mini-Stockfish Chess Engine | *Python, Pygame GUI, Cython, Multithreading, PyTorch, NumPy, pandas*
- Developed a Python chess engine with minimax and alpha–beta pruning alongside book openings and tablebases; accelerated search 77.2% via Cython, cutting eval time from $\sim 1100\mu s$ to $\sim 250\mu s$ ($\sim$4x faster).

Stock Analysis and Prediction AI | *Git, PyTorch, Jupyter, NumPy, Pandas, AdamW, CUDA*
- 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.

Groundwork Books Website | *Next.js, React, Express.js, Square API, Tailwind, Google Sheets API, Firebase*
- Built e-commerce site for 2000+ books with Square payments and Google auth for secure transactions.
- Boosted load times by 40% with responsive Svelte/Tailwind UI across devices; implemented real-time inventory tracking using Firebase for faster order processing.

TECHNICAL SKILLS

Programming Languages: Python, Java, C, C++, JavaScript, HTML/CSS, ARM Assembly
Libraries & Frameworks: PyTorch, TensorFlow, cuDNN, Transformers, Scikit-learn, Detectron2, OpenCL, CUDA, GPU, ReactJS, NextJS, NodeJS, ExpressJS, Svelte, Tailwind
Tools & Technologies: Git, Docker, Linux, Jira, Figma, VS Code, CodeMirror, Weights & Biases, Jupyter, NumPy, pandas, matplotlib, tqdm, HuggingFace
Databases: Firebase, MongoDB