Daris Chen

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Education

University of California San Diego
Bachelor of Science (B.S.) in Computer Engineering — *La Jolla, CA*

Fundamentals: Advanced Data Structures, Object-Oriented Design, Theory of Computation, Software Engineering, Design and Analysis of Algorithms, Digital Systems, Computer Architecture
AI & ML: Statistical Natural Language Processing, Machine Learning: Learning Algorithms, Probabilistic Models
Systems: Operating System Principles, Parallel Computing, Database System Principles

Work Experience

Software Engineering Intern — Jan 2025 – Present
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.
- 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.

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

Project Manager — Mar 2024 – Jun 2024
University of California, San Diego (CSE 110) — *La Jolla, CA*

- Oversaw CI/CD pipelines using GitHub Actions, reducing deployment errors by 30% with automated JUnit unit tests 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 web application development 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 (W&B).
- 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 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 0.25ms.

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; incorporated real-time inventory tracking using Firebase for faster order processing.

Technical Skills

Programming Languages: Python, Java, C, C++, JavaScript/TypeScript, HTML/CSS, ARM Assembly
Libraries & Frameworks: PyTorch, TensorFlow, CUDA, cuDNN, Transformers, Scikit-learn, Detectron2, GPU, React, Next.js, Node.js, Express, Three.js, Svelte, Tailwind CSS
Tools & Technologies: Git, GitHub Actions, Docker, Linux, Jira, Jest, Puppeteer, OpenCL, Figma, VS Code, CodeMirror, Weights & Biases, Jupyter, NumPy, Pandas, Matplotlib, tqdm, Hugging Face, Firebase, MongoDB, Vercel
Methodologies:Agile, Scrum, Waterfall, Kanban