

DARIS CHEN

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EDUCATION

University of California San Diego
Computer Engineering B.S.

La Jolla, CA 92092

WORK EXPERIENCE

Software Engineering Intern

PersonifyApp.ai

January 2025 - Present

Remote

- Revamped the user-driven feature leaderboard using Next.js, Tailwind CSS, and Firebase, driving a 15% boost in daily active participation and a 60% decrease in duplicate feature requests.
- Added admin controls for approving, rejecting, and closing feature requests, streamlining communication and reducing resolution time by 50%.
- Developed categorical sorting with vote ranking and search features, boosting leaderboard readability by 45%.

Project Manager

University of California, San Diego, CSE 110

March 2024 - June 2024

La Jolla, CA 92092

- Oversaw the CI/CD pipeline, reducing deployment errors by 30% and realigning team objectives to meet quality, scope, and timeline targets.
- Led the development of 50+ user stories with accurate story points, facilitating the rollout of 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.
- Directed daily stand-ups and bi-weekly Agile sprints, enhancing team communication by 40% and speeding up project delivery by 33% for a 12-member team.

RESEARCH

RedShift LLM Jailbreak Python, Pytorch, Prompt Engineering, CUDA, ML

- Led a multi-phase research project to advance Distract Large Language Models for Automatic Jailbreak Attack, a multi-agent LLM adversarial attack system, using LLMs as attackers, targets, and judges.
- Refactored Python code base, which removed 40% of error occurrence per local attack per iteration and optimized resource usage and redundancy by 35%.
- Integrated Chain of Thought (CoT) reasoning LLMs, broadening the study's scope by 67%, assessing impact of CoT on jailbreak attempts with 4 additional LLMs.

PROJECTS

Stock Analysis and Prediction AI Git, PyTorch, Jupyter, Numpy, Pandas, AdamW, CUDA

- Trained an LSTM neural network to predict stock prices using historical data, Bollinger bands, moving averages, trade volume, and the stochastic oscillator.
- Boosted computational efficiency by 30% through optimizing 28-million-line datasets sourced from Yahoo Finance and Kaggle using the AdamW optimizer, reducing data processing time from 4 hours to 2.8 hours.
- Helped users generate 15% higher simulated ROI over a 3-month period in testing simulations, resulting from an increased stock behavior prediction accuracy of 22%, while factoring fear index weighting.

Groundwork Books Full-Stack Commercial Website Svelte, Firebase, Square, Google Forms API, Tailwind

- Architected a robust e-commerce platform handling a catalog of over 2000 books, incorporating Square's payment API and Google authentication to ensure secure transactions and efficient user management.
- Crafted a highly responsive interface using Tailwind CSS and Svelte components, boosting load times by 40% and ensuring seamless functionality across all devices.
- Established a real-time inventory management system with Firebase Database for streamlined product tracking and order processing.

Hearthpebble MongoDB, Express.js, React.js, Node.js, Socket.io, Axios, ThreeJS, GSAP

- Developed a real-time 1-on-1 multiplayer card game with 50 ms latency using Three.js and GSAP for 3D rendering, seamlessly integrating WebSockets to enable real-time interactions.
- Integrated a React.js frontend with a Node.js/Express.js/Axios RESTful API backend, boosting data flow and application performance.
- Engineered a MongoDB database system for efficient storage and retrieval of user profiles and activity logs, ensuring immediate access to critical data.

SKILLS AND COURSEWORK

Programming Languages: Python, Java, C, C++, ARM, HTML, CSS, Javascript

Libraries and Frameworks: React.js, Node.js, Express.js, Next.js, Socket.io, JUnit, Linux, Ubuntu, Svelte, Tailwind, NumPy, pandas, matplotlib, Tensorflow, CUDA, cuDNN, OpenCL, Linux, Umix, Scikit-learn, tqdm, transformers

Developer Tools: Git, Visual Studio, Jest, Puppeteer, MongoDB, CodeMirror, Miro, Jira, Figma, Microsoft Teams, Slack, Firebase, Firestore, HuggingFace

Relevant Coursework: Computer Organization and Systems Programming, Data Structures and Object Oriented Design, Discrete Mathematics, Mathematics for Algorithms and Systems, Linear Algebra, Data Structures, Software Engineering, Signal Analysis for Circuits and Systems, Analog Design, Digital Design/Digital Systems, Statistical Natural Language Processing, Parallel Computing, Operating System Principles, Machine Learning: Learning Algorithms, Probabilistic AI Models