DARIS CHEN

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EDUCATION

University of California San Diego   La Jolla, CA 92092
Computer Engineering B.S.
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

SKILLS

Languages:	Python, Java, C, C++, ARM, HTML, CSS, Javascript
Libraries and Frameworks:	React.js, Node.js, Express.js, Socket.io, JUnit, Linux, Ubuntu, Svelte, Tailwind, NumPy, pandas, Matplotlib, Tensorflow, CUDA, cuDNN, OpenCL, Linux, Umix, Scikit-learn
Developer Tools:	Git, Visual Studio, Jest, Puppeteer, MongoDB, CodeMirror, Miro, Jira, Figma, Microsoft Teams, Slack

EXPERIENCE

Project Manager   March 2024 - June 2024
University of California, San Diego, CSE 110   La Jolla, CA 92092

- Oversaw the CI/CD pipeline, achieving a 30% reduction in deployment errors and realigning team objectives to meet the Iron Triangle's quality, scope, and timeline requirements.
- Led the creation of 50+ user stories, assigning accurate story points to prioritize tasks, which enabled efficient rollouts of 10+ core features across project sprints.
- Optimized task allocation and backlog organization, accelerating key feature delivery by 25% and reducing completion time from four to three weeks.
- Spearheaded daily stand-ups and bi-weekly sprints within the Agile Scrum framework, enhancing communication among team members by 40% and boosting project delivery timelines by 33% while ensuring alignment on project objectives across a team of 12 members.

Software Engineering Intern   January 2025 - Present
PersonifyApp.ai   Remote

- Built a user-driven feature leaderboard, increasing daily active user participation by 15% and reducing duplicate feature requests by 60%.
- Implemented admin controls for approving, rejecting, and closing feature requests, streamlining client communication and reducing request resolution time by 50%.
- Designed categorical sorting with a vote ranking system to determine popularity along with a search feature, improving leader board readability by 45%.

PROJECTS

Stock Analysis and Prediction AI *Git, Tensorflow, Jupyter, Numpy, Pandas, Adaptive Moment Estimation*

- 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 multi-million-line datasets sourced from Yahoo Finance and Kaggle using gradient descent and the Adam algorithm, 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.
- Orchestrated seamless integration between React.js frontend and backend by developing RESTful APIs with Node.js, Express.js, and Axios, enhancing data flow efficiency and application performance.
- Created a MongoDB database system to efficiently store and retrieve user profiles and activity logs, ensuring real-time access to critical user data.

RESEARCH

RedShift LLM Jailbreak *Python, Pytorch, Prompt Engineering*

- 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 code base, which removed 40% of error occurrence per local attack per iteration and optimized resource usage and redundancy by 35%.