Lunxiao (Claude) Li

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U.S. Permanent Resident

EDUCATION

North Carolina State University *August 2025 - Present*
Doctor of Philosophy (Ph.D.), incoming student
Major: Computer Science

University of California, Santa Cruz *September 2021 - March 2023*
Bachelor of Science
Major: Computer Science *GPA: 3.79/4.0*

Mission College, Santa Clara *January 2020 - May 2021*
Associate in Science
Major: Computer Information Systems *GPA: 3.96/4.0*

HONORS & AWARDS

Dean's List Fall 2022, Spring 2022, Fall 2021
University of California, Santa Cruz

Dean's List Spring 2021, Fall 2020, Spring 2020
Mission College

EXPERIENCE

Teaching Assistant - Automated Learning and Data Analysis
North Carolina State University - Raleigh, NC *August 2025 – December 2025*

- **Pedagogical Support** & **Mentorship**: Guided students through complex course concepts via weekly sections and office hours, improving comprehension and engagement.
- **Instructional Collaboration**: Partnered with the professor and teaching team to refine teaching strategies and provide tailored support to students.
- **Enhanced Learning Outcomes**: Simplified challenging material and encouraged deeper engagement, contributing to stronger course performance.

Software Engineer Intern
Vianai Systems Inc - Palo Alto, CA *May 2023 – December 2023*

- **Advanced Data Generation for AI Training**: Spearheaded the generation of over 2 million high-quality query-SQL pairs, a foundational dataset for fine-tuning Text2SQL models.
- **LLM-Integrated Data Validation:** Designed and implemented a robust data validation tool leveraging Large Language Models (LLMs) in Python, improving data integrity through automated error detection and correction.
- **Cross-Platform Data Pipeline Development:** Built an efficient data pipeline for preprocessing text data with Elastic Search, facilitating seamless cross-platform data transfer and improving search functionalities.
- **AI-Driven Survey Analysis:** Led the development of an AI-driven survey analysis application, transforming complex data into actionable insights, thereby expanding accessibility for both analysts and non-technical users.
- **Full-Cycle Project Management:** Directed comprehensive project life cycles from market research to deployment, consistently delivering projects ahead of deadlines while surpassing quality and performance metrics.

- **Collaborative Leadership:** Demonstrated leadership and adaptability across multidisciplinary teams, contributing to successful project outcomes and fostering cross-functional collaboration in AI and software development

Academic Tutor
University of California, Santa Cruz - Santa Cruz, CA January 2023 - March 2023

- **Collaborative Pedagogical Innovation:** Worked closely with the professor and fellow tutors to tailor tutoring methodologies, leveraging deep course expertise to address individual student needs, leading to a 20% improvement in student evaluations.
- **Enhanced Comprehension of Complex Concepts:** Simplified challenging course material to improve student understanding, encouraging further exploration and fostering greater engagement with advanced topics.
- **Recognized Academic Support in Class**: Provided expert tutoring for the course Computational Models, receiving commendations for exceptional academic guidance and fostering student success.

PROJECTS

LLM-Agent4Med May 2025 - Present

- Conducted large-scale experiments with various models, including **GPT-4o**, **LLaMA-3 series**, and **GPT-OSS** on both an internal clinical dataset and the **MIMIC-CXR** dataset to evaluate diagnostic accuracy.
- Reproduced and benchmarked advanced reasoning strategies (Chain-of-Thought, Self-Consistency, Multi-Agent Debating) for automated medical diagnosis workflows, improving model interpretability and reliability.
- Implemented and compared a multi-agent system inspired by recent medical AI research, validating its effectiveness in handling real-world diagnostic tasks.
- Contributed to a pending **ICDM 2025 workshop paper**, demonstrating early research output in AI for healthcare.

Chiplet Thermal Agile Design September 2024 - March 2025

- Collaborated with a peer to work on optimizing the chiplet layout design based on the thermal effect by utilizing machine learning methods.
- Leveraged multiple types of models together to explore and interpret the temperature distribution on the chipboard for a more reliable and faster temperature prediction.
- Implemented an **Adaptive Genetic Algorithm** to update the chiplet layout design for the optimal efficacy iteratively

Allergy Reminder February 2023

- Led a team of four to build a web application to help students avoid their allergens in school dining halls.
- Spearheaded the development of a web application during CruzHacks 2023, a 36-hour hackathon, using **Python**, **Flask**, and **PostgreSQL** for server-side development, and **JavaScript** and **React.js** for client-side development.
- Employed **Postman** for rigorous API testing and **Git** for version control.
- Ensured a seamless deployment of a fully functional product with **PythonAnywhere**.

SKILLS

Strong: *Python, Django, Flask, PostgreSQL, Elastic Search, React.js, GCP, Numpy, Pandas, Prompt Engineering, OpenAI API, Postman, Docker, Kubernetes, Microsoft Applications.*

Experienced: *Java, JavaScript, C++, Rust, MySQL, Tensorflow, Sklearn, Keras, PyTorch, Linux/UNIX.*