Lunxiao (Claude) Li

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🐙 https://github.com/Claude216 | Permenant Resident

Education

North Carolina State University   **August 2025 - President**
Ph.D. in Computer Science

University of California - Santa Cruz   **September 2021 - March 2023**
Bachelor of Science in Computer Science   *GPA: 3.8/4.0*
Honor: Dean's Honor List

Experience

Teaching Assistant   **North Carolina State University, Raleigh, NC**
Aug 2025 – Dec 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**: Spearheaded creation of 2M+ query-SQL pairs for Text2SQL model fine-tuning.
- **LLM-Integrated Data Validation**: Built Python validation tool using LLMs, improving dataset integrity.
- **Cross-Platform Data Pipeline**: Designed Elastic Search pipeline for preprocessing text data and enabling efficient cross-platform transfer.
- **AI-Driven Survey Analysis**: Developed AI-powered application for survey insights, enhancing decision workflows.

Academic Reader   **University of California, Santa Cruz**
Jan 2023 – Mar 2023   *Santa Cruz, CA*

- **Collaborative Pedagogical Innovation**: Worked with professor and tutors to improve student learning experience and provide actionable feedback.
- **Instructional Insights**: Analyzed student assignment and exam results to suggest enhancements to lecture focus.

Projects

LLM-Agent4Med   **May 2025 – Present**
Python, PyTorch, HuggingFace, OpenAI API
- **Multi-Model Evaluation**: Ran experiments with GPT-4o, LLaMA-3, and GPT-OSS on internal datasets and the MIMIC-CXR dataset.
- **Reasoning Strategy Reproduction**: Implemented Chain-of-Thought, Self-Consistency, and Multi-Agent Debating for diagnosis workflows.
- **Research Contribution**: Co-authored a pending ICDM 2025 workshop paper on medical AI agents.

Chiplet Thermal Agile Design   **Sep 2024 – Mar 2025**
Python, Scikit-learn, Genetic Algorithms
- **Thermal-Aware Optimization**: Applied ML models to predict temperature distribution across chipboards.
- **Algorithmic Innovation**: Implemented an Adaptive Genetic Algorithm for iterative optimization of chiplet layouts.

Allergy Reminder   **Feb 2023**
Python, Flask, PostgreSQL, React.js
- **Hackathon Web Application**: Built a web app to help students avoid allergens in dining halls during CruzHacks 2023 (36-hour hackathon).
- **Full-Stack Implementation**: Developed backend with Flask/PostgreSQL and frontend with React.js; deployed via PythonAnywhere.

Technical Skills

Languages: Python, Java, JavaScript, C++, Rust
ML/AI: PyTorch, TensorFlow, Sklearn, Keras, Prompt Engineering, OpenAI API
Data/Cloud: PostgreSQL, MySQL, Elastic Search, GCP, Docker, Kubernetes
Tools: React.js, Flask, Django, Git, Linux/UNIX, Postman