

Jincheng Lyu

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PROFESSIONAL SUMMARY

Production experience building React frontends, Node.js and FastAPI backends, and cloud-deployed APIs across research and startup environments. Pursuing M.Eng. in Data Science and Machine Learning at the University of Michigan. Proven track record of owning features end-to-end and delivering in fast-moving, technical settings.

EDUCATION

M.Eng. in Data Science and Machine Learning University of Michigan	Expected Apr 2027 Ann Arbor, MI
- GPA: 3.58/4.00.	
B.S. in Computer Science, Minor in Mathematics Penn State University (Schreyer Honors College)	Dec 2025 State College, PA
- GPA: 3.78/4.00. National Society of Leadership and Success (NSLS).	

EXPERIENCE

Research Assistant Jieliu Lab, Dept. of Computational Medicine and Bioinformatics, UMich	May 2026 - Present Ann Arbor, MI
- Built the complete interactive frontend for a biological knowledge graph platform (38M+ articles, 3.2M+ entities) using React, TypeScript, Vite, Three.js, and react-force-graph-3d, including a 3D force-directed cluster overview and card-based 2D subgraph explorer with 3-hop BFS-distance layout.	
- Maintained production FastAPI backend and PostgreSQL database, delivering API endpoints, persistent conversation state, and streaming improvements, plus bug fixes for database migration errors and serialization bugs causing 500 responses.	
- Built and deployed a GPU resource tracking dashboard with a calendar heatmap and drag-and-drop allocation UI for the compute cluster.	
Full Stack Developer RadicalAI (Startup)	May 2024 - Aug 2024 Remote
- Developed core product features for an early-stage startup using React, contributing directly to the production codebase.	
Research Assistant National AI Institute for Exceptional Education	Sep 2024 - Present Remote
- Built ASR and speaker classification pipelines for automated assessment of parent-child interactions in autism interventions.	
- Contributed data quality control and AI output validation to AIED 2025 paper as third author.	
Honors Thesis Researcher Schreyer Honors College, Penn State University	Aug 2024 - Dec 2025 State College, PA
- Developed a dialogue classification system focused on NLP in collaboration with a faculty advisor; produced honors thesis: GUIDE: A Dataset and Study of Context for Intent Recognition in Asymmetric Guiding Dialogue.	
Learning Assistant, Data Structures Penn State University	Jan 2023 - Dec 2023 State College, PA
- Supported undergraduate students in Data Structures coursework through guided problem-solving and concept reinforcement.	

PROJECTS

My Car Story my-car-story.com	
- Built a full-stack personal vehicle history platform using React, Express, and Cloudflare Tunnel.	
Hermes Traffic Light github.com/BruceBest/agent-light	
- Designed a physical AI agent status indicator using an ESP32-C3 microcontroller and a Tailscale-bridged HTTP API.	
LUMI LINK	Oct 2023 - Feb 2024
- Developed a WebSocket chat application with database-interface logic, deployed on AWS EC2.	
Online Forum Backend	Jun 2021 - Jul 2022
- Built a server-side Java application using HTTP protocol for user-database communication.	

SKILLS

Frameworks and Tools: React, Node.js, Express, FastAPI, Vite, Docker, Git, Linux
Languages: JavaScript, TypeScript, Python, Java, C, C++, SQL, Verilog
Data and Infrastructure: PostgreSQL, Supabase, AWS EC2, Cloudflare Tunnel, Neo4j
AI and Agent Tools: Hermes Agent, Claude Code, OpenAI API, MCP servers, autonomous agent workflows
Spoken Languages: Mandarin (Native), English (Fluent)