

Darcy (Lianrui) Sun

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EDUCATION

New York University — Courant Institute of Mathematical Sciences, New York, NY
Master of Science in Computer Science

Expected May 2027

Worcester Polytechnic Institute, Worcester, MA
Bachelor of Science in Computer Science, GPA: 3.75/4.0

August 2021 – May 2025

EXPERIENCE

Shangping — AI-Powered Restaurant-Review SaaS

May 2025 – August 2025

Full-Stack Engineer & Founder | Remote

- **Launched a React AI review website** where diners select dishes, add tags, rates, to generate reviews, producing a polished, share-ready post; rolled out to 12 Beijing restaurants and increased review volume 2.8×.
- **Built an auto-generated microsite workflow**; One JSON per restaurant (branding, styles, dishes, routes) compiles to a branded site, cutting launch time 12 h to ~5 min with zero engineer touch.
- **Merged historical reviews to tailor 70+ prompts per restaurant**, yielding brand-true output with reduced fabrication while holding ≤ 500 -token budgets and sub-\$0.01/1k-word cost.
- **Implemented a Lambda** that verifies HMAC, fetches keys via SSM, enforces usage caps, invokes the LLM, and audits in CloudWatch—secrets stay server-side; API Gateway adds table-slug tagging and per-tenant quotas.
- **Tech: React.js (TypeScript), HTML, CSS • AWS API Gateway, Lambda, CloudWatch • DeepSeek API (LLM)**

InnoSpire Technology Limited

August 2024 – May 2025

Full-Stack Application Developer | Remote

- **Led end-to-end development of an Android app** that turns camera images into spoken descriptions for visually impaired and blind (VIB) users, built with **Android Studio** and **React Native**.
- **Integrated an online GPT-4o fallback through the OpenAI API**, delivering richer image descriptions and fluent LLM-based interaction in multiple languages
- **Embedded quantized Small Language Models with llama.cpp**, delivering local offline inference so users receive real-time assistance even without a data connection.
- **Integrated on-device YOLOv5 object detection, speech recognition, prompt-engineering, and text-to-speech pipeline** to provide accurate scene understanding and natural audio feedback.
- **Tech: React Native (TypeScript), Expo, Android Studio, SST&TTS • OpenAI API (GPT-4o) • llama.cpp • YOLOv5**

AYCG, Inc

July 2024 – August 2024

Full-Stack Developer Intern | Remote

- **Built an admin portal (React + FastAPI) with JWT auth and CRUD over MySQL on Alibaba Cloud**, and removed 700 lines of code and cut page load 35 %.
- **Tech: React (TypeScript) • FastAPI (Python) • MySQL • Alibaba Cloud (RDS) • JSON Web Token (JWT) • REST/CRUD**

PROJECTS

WPI CS Major Tracker Website - Full-Stack Developer [\[Link\]](#)[\[GitHub\]](#)

January 2025 – March 2025

- Built a React + Express app (Auth0, MongoDB) with four REST APIs that let CS majors upload and track degree progress.
- Added a GPT-4o-mini chatbot advisor and Material-Tailwind UI, boosting plan-accuracy and usability.

WPI rating dashboard of healthy classroom website - Project Owner/Full-Stack Developer [\[Link\]](#)

August 2023 – May 2024

- Developed a React dashboard that streams data from 10 Awair Omni sensors via AWS Lambda and stores data in S3.
- Applied data-virtualization to large datasets, cutting initial load time and ensuring smooth real-time visualization.

Hospital Desktop Application Development - Full-Stack Developer [\[Link\]](#)

March 2023 – May 2023

- Developed a software application that provides real-time pathfinding algorithms and personnel services at the Brigham & Women's Hospital, using **agile development cycles** including two prototypes and four iterations.

SKILLS

Languages: JavaScript, TypeScript, Python, Java, C++, SQL, CSS, HTML

Front-End & Back-End framework: React 18, Auth0, Node.js, Express.js, FastAPI, JWT auth, REST design

Cloud & Storage: AWS (Lambda, API Gateway, DynamoDB, S3, CloudWatch), CI/CD, Docker, MongoDB, MySQL, DynamoDB

AI & Platforms: OpenAI, Google, DeepSeek, llama.cpp (quantized SLMs), YOLOv5, Prompt engineering

Skills: Agile/Scrum, CI/CD, Git, Linux