

LEO ZHOU

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Education

Rice University | B.S. in Computer Science | **GPA: 3.92/4.00** **Expected May 2028**

- **Relevant Coursework:** Data Structures & Algorithms, Linear Algebra, Computer Systems, Program Design, Compilers, Probability & Statistics, Discrete Math, Honors ODE, Computer Engineering, Digital Logic Design
- **Activities and Societies:** Competitive Programming Club, Chess Club, Rice Fencing Club, Rice Wind Energy

Work Experience

Software Engineer | **KEWW** | Westchase Hospitality Group **September 2026 – Present**

- Built Cashew, a Next.js/TypeScript Caterease replacement with 32 templates for six linked event documents
- Integrated Gemini to turn notes into reviewed proposals, invoices and kitchen documents with source quotes
- Indexing 200,000 email threads and 15 years of records into Postgres with pgvector, PII redacted by Presidio
- Designing SEO and marketing agents to draft reviewed web pages and campaigns from approved sources

Software Developer | **RiceApps** × **Rice Football** **September 2026 – Present**

- Building Rice Football's data backend to unify PFF, CFBD and Hudl feeds in a shared, source-tagged database
- Developing Python/R packages to query shared datasets and reuse analyses across Rice Football coaching reports
- Designing cloud execution of analyst scripts to deliver fresh PDF reports on demand to coaching staff

Undergraduate Research Assistant | **Rice University** | Prof. Jiarong Xing **August 2026 – Present**

- Investigating how collaborating AI agents can exceed access policies for a systems-security research proposal
- Fixed OAuth re-logins, SSH usage sync and repeat Keychain prompts in a Swift macOS developer tool

Software Engineer Intern | **CanSemi** | Test Engineering Team **June 2026 – August 2026**

- Parsed 500+ binary test equipment logs in Python into a normalized PostgreSQL schema, 40 lots in under 2 min
- Wrote a FastAPI service with 8 endpoints over that data, cutting report turnaround ~75% for 6 engineers
- Built an interactive React and Canvas wafer map with hover and drill-down, retiring the team's Excel heatmaps

Software Engineer Intern | **Inkstone Technologies** **April 2026 – June 2026**

- Built a SwiftUI reading app with Apple Vision OCR to add pronunciation only for unfamiliar Chinese characters
- Parsed and frequency-ranked a 113,000-entry Chinese dictionary in Python into an indexed SQLite database

Projects

BlunderNet 🧠 | [blundernet.com](#) 🌐 | *Go, React, PostgreSQL, Redis, AWS, Terraform, Docker* **Ongoing**

- Built a chess training site for ~200 users, with 3.25M puzzles filtered by rating, theme and game phase
- Cut uniform random puzzle selection from 1.4 s to 0.9 ms with a precomputed grid and a stored shuffle key
- Defined AWS infrastructure in Terraform with stateless Go APIs, Redis game state and queued engine workers

Vestigo 🧠 | [vestigo.earth](#) 🌐 | *Python, PyTorch, CLIP/SigLIP, tool calling, calibration* **Ongoing**

- Built a photo geolocation agent with evidence citations and trained a SigLIP classifier on 64,865 images split by location, reaching 142 km median error and 3.7% calibration error after temperature scaling

From Scratch 🧠 | HackRice 16 | [fromscratch](#) 🌐 | *TypeScript, React, Tailwind, Gemini API* **September 2026**

- Built a crafting game that teaches how everyday objects are made and the materials and labour behind them

Leadership & Activities

Rice Fencing Club | Co-president, Coach & Website Manager | Three SWIFA wins **August 2025 – Present**

- Built and manage [ricefence.com](#) 🌐 with scroll-driven animations for recruitment, photos and club info

Junior National Fencing Team | Captain, Coach & Referee | Junior Worlds + Commonwealth **2022 – 2025**

- Won 30+ titles across New Zealand and Australia, coached 30+ young fencers and refereed 50+ bouts

Physics Pathfinders | Charity President | Physics workshops for 600+ students across 22 schools **2023 – 2025**

Technical Skills

Languages: Python, Go, TypeScript/JavaScript, SQL, Swift, C/C++, HTML/CSS

Frameworks & Data: React, Next.js, FastAPI, SwiftUI, PyTorch, PostgreSQL, Redis, SQLite, pgvector

Systems & Tools: AWS (ECS, SQS, RDS), Terraform, Docker, Linux, Git, GitHub Actions, WebSockets, ESP32