

Leo Chang

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Education

Princeton Day School

High School Diploma (Expected June 2027)

SAT: 1550 (750 Reading, 800 Math)

Princeton, NJ

Leadership & School Activities

The Spokesman (School Newspaper) — Editor-in-Chief

Sep 2023 – Present

- Rose from Associate Editor (9) to Online Editor (10) to Editor-in-Chief (11, 12)
- Lead 11 editors and 36 writers, artists, and photographers, setting editorial direction

Varsity Fencing Team — Team Member

Sep 2023 – Present

- Varsity contributor for four consecutive years since 9th grade
- NJSIAA District 6: 2nd Place, Individual & Team (Saber) (2025)

Ti-Ratana Welfare Society — Director, Orphanage Educational Program

Mar 2020 – Present

- Founded and direct a remote education program at a major Kuala Lumpur NGO housing 70+ children
- Teach weekly English and science lessons via Zoom for 6+ years; manage rotating student volunteers
- Led a fundraiser raising \$8,000+ for e-learning tools; featured in local press for impact

Science Olympiad — Team Member, Co-Head (12) & MS Co-Head (11)

Sep 2023 – Present

- Helicopter: 3rd Regionals (2025, 2026), 5th NJ States (2025), 4th States (2026); Electric Vehicle: 6th States (2025)
- Create practice tests and mentor younger members while co-leading club practices

Princeton Day School Chess Club — Co-Founder

Sep 2025 – Present

- Co-founded and grew the club to 40+ members; run tournaments, club operations, and social media outreach

Projects & Entrepreneurship

NapkinNotes — Co-Founder & Lead Developer

Aug 2025 – Present

- Co-founded an edtech app that turns PDS students' class notes into AI-powered study resources; 80+ users, 170+ notes
- Built core features: note uploading, course organization, note locking, and AI summarization

Phase Spector — Game Developer & Designer (3-Person Team)

Jan 2026 – Apr 2026

- Co-developed a top-down, wave-based arcade shooter in Godot 4.6 with a time-rewind mechanic for 500+ PDS students
- Engineered three enemy types including multi-phase mini-bosses; implemented rewind playback, projectile deflection, difficulty scaling, and persistent leaderboards

Stock Price Prediction ML — Lead Researcher & Developer

June 2024 – Present

- Researched whether Twitter sentiment improves LSTM stock-price prediction; accepted for publication in the Journal of Emerging Investigators
- Tested AAPL, TSLA, and MSFT over one year on 80,793 labeled tweets and 13 indicators; sentiment raised average RMSE ~32%, challenging prevailing financial-ML assumptions

Employment Experience

Rutgers University — Research Intern, LLM Multi-Agent Systems

Apr 2026 – Present

- Research with Prof. Yongfeng Zhang whether LLM agents can negotiate peer-to-peer to fairly ration scarce energy during grid outages
- Built a 30-household microgrid simulator and LLM-agent negotiation layer; 400+ automated tests with CI

Hongik University — Research Intern, Prof. Eunsoo Choi's Structural Engineering Lab

Seoul | Aug 2026

- Investigated shape memory alloy (SMA) fibers embedded in concrete for post-earthquake crack closure
- Ran daily experiments with graduate students and built simulations analyzing the resulting test data

Zhongke Guoguang Quantum (GGQuanta) — AI/ML Intern, Multi-Agent Systems & Web

Beijing | Jul 2026

- Authored and stress-tested agent skills for QuantaMate, the AI research assistant of China's first photonic quantum chip company; verified skills shipped at its July 2026 launch
- Developed the company's production bilingual website with an interactive 3D chip model

Mundial Financial Group — Intern, Investment Banking

Jul 2025 – Sep 2025

- Partnered with the CEO to analyze industry websites, informing a full site redesign
- Authored and optimized web content; managed social media to grow traffic and client understanding

Achievable — Content Marketing Intern

Jul 2024 – Oct 2024

- Wrote researched blog posts and guest articles for partner sites, spanning topics from tech to daily life

Capital Health Regional Medical Center — Junior Volunteer*Jul 2024 – Aug 2024*

- Contributed 66+ hours as a Nursing Unit Volunteer: answered call bells, ordered meals, and kept essentials within patients' reach
- Assisted the volunteer manager with file organization, data entry, and discharge-packet prep

Chipotle Mexican Grill — Team Member, Yardley & Warrington, PA*Sep 2025 – May 2026*

- Deliver high-quality service in a fast-paced environment while maintaining accuracy under pressure

Awards & Publications

- **PClassic Fall 2023: 1st Place** — UPenn competitive programming competition
- **Scholastic Art & Writing Awards:** 2 Silver Keys (2023 & 2024)
- **Progressive Young Artist Awards (PYAA):** Gold Award — short story “Dear Lao-Lao” (2026)
- **Journal of Emerging Investigators:** Paper accepted — “Analyzing the Impact of Twitter Sentiment on Stock Price Prediction Using Long Short-Term Memory Models”
- **HackBac Hackathon: 3rd Place** — social justice-themed hackathon
- **National Economics Challenge:** 4th, NEC California States 2024
- **Published Poetry:** Selected for White Enso Journal (“Six Winter Haiku”) and Creative Communications
- **Ballroom Dance:** USA Dance Youth Pre-Champ National Champion (Sophomore, 2025); USDC Pro-Am Finalist (Freshman & Junior)
- **Science Olympiad:** Helicopter 3rd Regionals (2025, 2026), 5th States (2025), 4th States (2026); Electric Vehicle 6th States (2025)
- **Fencing:** NJSIAA District 6: 2nd Place, Individual & Team (Saber) (2025)

Skills

- **Programming:** Python (Flask), JavaScript/TypeScript, HTML, CSS, Java, GDScript **Technical:** Full-stack development, machine learning (TensorFlow, scikit-learn), LLM multi-agent systems, PostgreSQL, cloud deployment (Google Cloud, AWS S3), automated testing/CI
- **Marketing:** Web design, SEO, social media strategy, content creation **Languages:** English, Chinese, Latin