

# Leo Chang

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## Education

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### Princeton Day School

High School Diploma (Expected June 2027)

SAT: 1550 (750 Reading, 800 Math)

Princeton, NJ

## Leadership & School Activities

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### 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) over four years
- Lead 11 editors and 36 writers, artists, and photographers; assign and edit articles and set editorial direction

### Varsity Fencing Team — Team Member

Sep 2023 – Present

- Varsity contributor for four consecutive years since 9th grade
- NJSIAA Regional 2nd Place, individual and team (2025); qualified for NJ State Final

### Ti-Ratana Welfare Society — Director, Orphanage Educational Program

Mar 2020 – Present

- Founded and direct a remote education program at Ti-Ratana Welfare Society, a major Kuala Lumpur NGO housing 160+ children across three homes
- Teach weekly English and science lessons via Zoom for 6+ years, adapting curriculum and managing rotating student volunteers
- Led a fundraiser raising \$8,000+ for e-learning tools (projector, laptop, microphone); featured in local press for impact

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

Sep 2023 – Present

- Compete at Regionals and NJ State Finals in Helicopter and Electric Vehicle
- Helicopter: 3rd Regionals (2025, 2026), 5th States (2025, 2026); Electric Vehicle: 6th States (2025)
- Co-Head of the club (senior year); previously co-headed the middle school team, creating practice tests and mentoring members

### Princeton Day School Chess Club — Co-Founder

Sep 2025 – Present

- Co-founded and grew the club to 40+ members; organize tournaments and run all club operations
- Drive social media outreach and engagement to expand participation

## Projects & Entrepreneurship

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### NapkinNote — 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 — Lead Game Developer & Designer

Dec 2025 – Present

- Built a top-down, wave-based arcade shooter in Godot 4.6 with a time-rewind mechanic for 500+ PDS students
- Engineered three enemy types with distinct behaviors, 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 publishing 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
- Designed and validated two LSTM architectures (baseline and sentiment-augmented) with five-fold time-series cross-validation

## Employment Experience

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### Rutgers University — Research Intern, LLM Multi-Agent Systems

Apr 2026 – Present

- Research with Prof. Yongfeng Zhang (Rutgers CS) whether LLM agents can negotiate peer-to-peer to ration scarce energy during residential grid outages with fairness and auditability
- Built a 30-household microgrid simulator with realistic battery physics on real NREL load/solar data (70 tests, CI); a round-robin baseline cut welfare-inequality Gini 65.8% vs. no coordination
- Targeting the ICLR Tackling Climate Change with ML or NeurIPS Computational Sustainability workshop

### 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 — Intern, Test Prep Startup***Jul 2024 – Oct 2024*

- Wrote blog posts and conducted independent research across topics from tech to daily life
- Authored guest posts for partner sites to expand audience and reach

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

- Contributed 66+ hours across multiple roles supporting hospital staff and patients
- Served 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**

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- **PClassic Fall 2024: 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 (“Snow Haiku”) and Creative Communications
- **Ballroom Dance:** USA Dance Junior & Youth Pre-Champ National Champion (Sophomore); USDC Pro-Am Finalist (Freshman & Junior)
- **Science Olympiad:** Helicopter 3rd Regionals (2025, 2026), 5th States (2025, 2026); Electric Vehicle 6th States (2025)
- **Fencing:** NJSIAA Regional 2nd Place, individual and team (2025); qualified for NJ State Final

**Skills**

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- **Programming:** Python (Flask), HTML, CSS, JavaScript, Java, GDScript **Technical:** Full-stack development, machine learning, data visualization
- **Marketing:** Web design, SEO, social media strategy, content creation **Languages:** English, Chinese, Latin