

# Leo Chang

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## Education

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### Princeton Day School

Princeton, NJ

High School Diploma (Expected June 2027)

SAT: 1550 (750 Reading, 800 Math)

## Leadership & School Activities

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

Sep 2023 – Present

- Promoted from Associate Editor (Freshman Year) to Online Editor (Sophomore Year) to Editor-in-Chief (Junior Year), overseeing the publication across four years
- Manage a team of 11 editors and 36 writers, artists, and photographers; assign and edit articles, and guide editorial direction for student journalism

### Varsity Fencing Team — Team Member

Sep 2023 – Present

- Key player on the team since 9th grade, competing for four consecutive years
- NJSIAA Regional 2nd Place (individual and team) 2025; qualified for NJ State Final 2025

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

Mar 2020 – Present

- Initiated and direct a remote educational program for children at Ti-Ratana Welfare Society, one of the largest NGOs in Kuala Lumpur, Malaysia, which houses over 160 children across three homes regardless of race and creed
- Deliver weekly interactive lessons in English and science via Zoom for over six years, adapting curriculum to student needs and managing rotating groups of student volunteers
- Led a community fundraiser raising over \$8,000 to purchase e-learning tools including a projector, laptop, and microphone; featured in local newspaper for program impact

### Science Olympiad — Team Member & Middle School Co-Head

Sep 2023 – Present

- Competed at Regionals and NJ State Finals across multiple years in events including Helicopter and Electric Vehicle
- 3rd in Helicopter at Regionals 2025 and 2026; 5th in Helicopter and 6th in Electric Vehicle at NJ State Final 2025; 5th in Helicopter at NJ State Final 2026
- Co-headed the middle school team in Junior year, mentoring younger students

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

Sep 2025 – Present

- Co-founded and grew the club to over 40 regular members, organizing in-school tournaments and managing all club operations
- Drove social media outreach and membership engagement to expand participation

## Projects & Entrepreneurship

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### NapkinNote — Co-Founder & Lead Developer

Aug 2025 – Present

- Co-founded an edtech app where PDS students share class notes and transform them into concise, AI-powered study resources; grown to over 80 regular users and 170 uploaded notes
- Designed and implemented core features including note uploading, course organization, note locking, and AI summarization

### Phase Spector — Lead Game Developer & Designer

Dec 2025 – Present

- Developed a top-down wave-based arcade shooter in Godot 4.6 for 500+ PDS students, featuring a unique time-rewind mechanic
- Engineered three distinct enemy types with unique behavioral patterns including multi-phase mini-bosses
- Implemented core systems including rewind playback, projectile deflection, difficulty scaling, and persistent high score leaderboards

### Stock Price Prediction ML — Lead Researcher & Developer

June 2024 – Present

- Conducted ML research investigating whether Twitter sentiment analysis improves LSTM-based stock price prediction; accepted for publishing in the Journal of Emerging Investigators
- Tested AAPL, TSLA, and MSFT over one year using 80,793 labeled tweets and 13 technical indicators; found sentiment-enhanced LSTM models increased average RMSE by ~32%, challenging prevailing assumptions in financial ML
- Designed and validated two LSTM architectures (baseline and sentiment-augmented) using five-fold time series cross-validation

## Employment Experience

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### Mundial Financial Group — Intern, Investment Banking

Jul 2025 – Sep 2025

- Worked directly with the CEO to perform a comprehensive analysis of industry websites, informing a complete site redesign
- Authored and optimized web content; managed the firm's social media presence to increase traffic and client understanding

### Achievable — Intern, Test Prep Startup

Jul 2024 – Oct 2024

- Wrote blog posts and conducted independent research across a range of topics from tech to daily life
- Authored guest posts for partner sites to expand the company's audience and reach

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

- Contributed over 66 hours of service across multiple roles to support hospital staff and patients
- Served primarily as a Nursing Unit Volunteer, assisting staff and patients by responding to call bells, ordering meals, and ensuring essential items were within reach
- Assisted the volunteer manager as an office assistant, handling file organization, data entry, and preparation of discharge packets

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

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

**Awards & Publications**

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- **PClassic Fall 2024: 1st Place** — competitive programming competition hosted by the University of Pennsylvania
- **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:** Research accepted for publishing: "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 Place in NEC California States 2024
- **Published Poetry:** Work selected for publication in White Enso Journal ("Snow Haiku") and Creative Communications
- **Ballroom Dance:** USA Dance National Junior and Youth Pre-Champ National Champion (Sophomore Year); USDC Pro-Am Finalist (Freshman and Junior Year)
- **Science Olympiad:** 3rd in Helicopter at Regionals 2025 and 2026; 5th in Helicopter and 6th in Electric Vehicle at NJ State Final 2025; 5th in Helicopter at NJ State Final 2026
- **Fencing:** NJSIAA Regional 2nd Place (individual and team) 2025; qualified for NJ State Final 2025

**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