

SHANGDONG LI

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EDUCATION

Shanghai Starriver Bilingual School 09/2019 – Present

HONORS

Global Final Qualifier Team Top 3/30; Best Team Performance
National
Duke Math Meet China, Grade 11

Team Silver in Overall/Power/Guts Round, Individual Silver in Algebra
International
Berkeley Math Tournament BMT, Grade 11

Meritorious Award
International
High School Mathematical Contest in Modeling HiMCM, Grade 11

Gold Division
International
USA Computing Olympiad USACO, Grade 10

Second Class Prize Top 5% out of 20k
National
4th Franz Liszt International Youth Piano Competition China, Grade 9

Silver Medal Top 5%
International
Kaggle 3D Object Detection Challenge

Top 22 from 390+ participants
International
Tencent Music Tech X program

Grade: A for a 10-page research paper
International
Pioneer Academics Machine Learning Algorithms - Perceptron and SVM

LEADERSHIP

Captain, School Informatics and Computing Olympiad Team 28 members 08/2023 – Present

- Organize weekly training sessions for USACO
- Increase participation via targeted recruitment
- Led the team to achieve [highest ranking in DMM in years](#)

TECHNICAL & RESEARCH EXPERIENCE

RAVE Model Research	06/2025 – 11/2025
Trained a Realtime Audio Variational autoEncoder model for high-quality rain sound synthesis Achieved a real-time factor of 0.23 and spectral reconstruction loss of 0.142 Successfully created smooth transitions between different rain intensities and textures through latent space manipulation	
Student Researcher, Pioneer Academics	06/2025 – 09/2025
Wrote a 10-page research paper: Machine Learning Algorithms - Perceptron and SVM Applied data analysis tools to examine robustness & vulnerability of algorithms Analyzed implications for future development of AI software	
Participant, Kaggle 3D Object Detection Challenge	03/2025 – 06/2025
Applied deep learning models and computer vision to locate flagellar motors in 3D reconstructions of bacteria	
Music Technology Trainee, Tencent Music Tech X program	07/2024 – 08/2024
Tested pitch-corrected songs for hearing loss; enhanced sound perception Composed music for a 3-min Alzheimer's awareness video 500+ likes	
AI Project Developer, Huawei Youth Developer Program	11/2024 – 02/2025
Trained an AI model on 200+ motifs from 150 artworks Applied style transfer model to visualize furniture and interiors in home design software	
Freelance Tech Support Staff, Abbott Shanghai	03/2025 – 05/2025
Developed a smart distribution system for 5 products, utilizing CRUD database systems and Boolean logic Enhanced product tracking efficiency	

MUSIC

Summer Student, Music Pre-College Program, Carnegie Mellon University 06/2024 – 08/2024

Performed 3 jazz piano pieces with an ensemble
Utilized scoring and digital audio workstations to compose 2 pieces of electronic music and a sonata
Performed contemporary clarinet solo "Rain" with extended techniques including flutter-tonguing

Jazz Pianist, House of Blues and Jazz, Shanghai 09/2021 – 08/2025

Performed for 60+ patrons in 1.5-hour performances weekly, with 6 other musicians
Developed new arrangements of 5 Chinese songs with jazz rhythms
Studied jazz works by Fred Hersch and Bill Evans, learned to play classics like "All The Things You Are" and "Days of Wine and Roses"

Keyboard/Drum Player, Favourito Electronic Band 11/2020 – 07/2023

Played keyboard primarily, occasionally switching to drums based on musical requirements
Participated in weekly rehearsals with band
Performed at periodic community charity events

Creative Music Designer, Independent Portfolio 09/2021 – Present

Composed and arranged 5 electronic and classical pieces
Layered sounds from synthesizers, violin, brass, and piano using Logic Pro and Ableton Live

Clarinetist, Shanghai Starriver Classical Ensemble ~50 members 09/2021 – 06/2025

Performed in 4 major concerts a year for 200 students
Supported Yale Club of Shanghai's charity concerts, performing for 500 audience members

Classical Pianist, Private Study & Competitions 09/2013 – Present

Studied piano since primary school, specializing in works by Chopin, Mozart, Bach
Performed Liszt's "Liebestraume" at 16th Shanghai International Youth Piano Competition
Explored works by lesser-known classical composers including Sibelius's Étude in A minor, Op. 76, No. 2

Clarinetist, Shanghai Youth Palaces' Wind Orchestra 09/2018 – 06/2021

Played clarinet for 2-3 years in ensemble performances
Participated in several public performances for approximately 50 people

AI Music Production & Research 08/2024 – Present

Trained a model using rain samples as input to generate random rain sounds
Applied AI-generated lyrics and components in music production
Created music combining classical theory, jazz elements, and electronic techniques
Explored ambient music genres, focusing on how simple sounds reflect chord progressions from classical music