

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	