

# Shrestha Mishra

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## EDUCATION

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COPPELL HIGH SCHOOL

*Expected Graduation*

Coppell, TX

May 2025

**Relevant Courses:** Computer Science 1, AP Computer Science Principles, International Baccalaureate (IB)

**Program Coursework**

**GPA:** 4.2596/4.0

**Class Rank:** 18/940

**SAT - 1510 (M 790, EBRW 720) taken August 2024**

**Exams taken with Score:**

- Human Geography - 5
- World History - 5
- Principles of Computer Science - 4

**Activities:** Varsity Marching Band, Wind Symphony Ensemble, IB Diploma Candidate, Research Club, Finance Fanatics Club, National Honor Society

DALLAS COLLEGE

*Computer Science 2 (TACS2)*

Online Summer Class

JUNE - JULY 2022

## WORK EXPERIENCE

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**A3S Services** • Co-Founder, Business Manager, Technology Lead

**2023-Present**

- Co-founded a \$50k/year car leasing business for Uber drivers, providing 15+ individuals with vehicle access and a path to car ownership, enhancing their financial stability
- Developed skills in strategic planning, conflict resolution, and budgeting, which helped scale the business and provide consistent support to drivers

**Stonegate Tutors** • Founder, Business Owner, Tutor

**2022-2023**

- Founded a private tutoring business, earning \$1k/month by providing personalized Math and English lessons to 10+ students, improving their academic performance
- Gained entrepreneurial and mentorship skills by managing business operations and customizing lesson plans to help students achieve A-level grades

**Bytelearn** • Business Development Intern

**May 2023**

- Conducted outreach to educational institutions, promoting Bytelearn's AI-driven tutoring platform and expanding its user base through strategic partnerships
- Collaborated with cross-functional teams to identify market needs, contributing to product development and enhancing the platform's effectiveness in personalized learning

## RESEARCH EXPERIENCE

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### **Foot and Ankle Research Innovation Lab @ Harvard Medical School • AI Researcher, Lab Member      2024-Present**

- Developing AI tools to enhance surgical precision in minimally invasive surgeries (MIS), improving patient recovery times with the BEAR tool
- Collaborated closely with leading surgeons, integrating AI into clinical practices to refine and improve the accuracy of foot and ankle surgeries

### **Pocket AI Colubri Lab @ UMass Chan Medical School • AI Researcher      2024-Present**

- Developing AI diagnostic app feature aimed at improving healthcare access for low-income communities through displaying SHAPLEY values based on parameters of diagnosis
- Advocated for equity-driven technology solutions, contributing to the app's goal of improving health diagnostics in underserved populations

### **Summer Cohort Member @ Harvard AI Edge Lab • AI Research Cohort Member, Prompt Engineer      Summer 2024**

- Selected from a competitive pool (50/200) to optimize data labeling prompts for large language models in computer hardware research
- Gained research precision skills by collaborating with IIT students, contributing to the development of more efficient AI systems

### **Independent Researcher @ UNT Dept. of Information Science • AI Literacy Researcher, Co-Author      2023-Present**

- Co-authored an AI literacy paper for K-12 and collegiate educators, shaping a national guide on integrating AI into educational curricula soon to be published in Computers and Education Open journal
- Conducted data analysis to provide recommendations for fundamental AI curriculum, sparking a passion for advancing AI literacy across diverse educational settings

## LEADERSHIP

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### **Coppell High School Band • Brass Captain, Section Leader, Principal Trumpet, Soloist      2021-Present**

- Led the Coppell High School Band as Principal Trumpet player, providing expertise and guidance to hundreds of band students, resulting in various competitive placements in marching and concert setting
- Played a key role in preparing the band for prestigious performances, such as the Midwest Clinic, by guiding musicians through complex pieces, organizing sectionals, and offering personalized feedback

### **Health for Humanity • Rockwall County Chapter President, Heart Disease Awareness Advocate      2024-Present**

- Created partnerships with local schools and community centers to expand the reach of heart disease awareness programs, aiming to educate a broader audience on preventive measures and life-saving techniques
- Developed digital content, including webinars and social media outreach, to educate younger students on heart health in accessible and engaging ways

### **IB Diploma Program • Vice-President, Junior Representative      2023-Present**

- Played a role in streamlining communications between students and faculty, enhancing the efficiency of event planning, and improving overall student engagement in IB events and initiatives
- Developed fundraising strategies to support IB activities, leading to the successful execution of events like the homecoming float and community outreach efforts

### **Research Club • Section Leader      2023-Present**

- Mentored a team of 9 students in researching ChatGPT's accuracy in mathematical modeling, providing mentorship in research methodologies and data analysis
- Enhanced team collaboration and critical thinking, guiding the research team to produce insightful findings on AI's applications in education

- Finance Fanatics • Leadership Team** **2023-Present**
- Organized finance workshops covering accounting, business analytics, and investment strategies, preparing students for national competitions like the Wharton Global High School Investment Competition
  - Collaborated with industry professionals to deliver real-world financial insights, encouraging students to explore careers in finance

#### **VOLUNTEER EXPERIENCE**

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- Mark Cuban AI Foundation • AI Outreach Ambassador** **2021-Present**
- Collaborated with AI literacy workshops in underserved communities, educating students on the significance of artificial intelligence and technology
  - Expanded AI educational opportunities by organizing outreach events that introduced new technological learning resources to marginalized communities

- American Indian Foundation • Digital Literacy Ambassador** **2021-Present**
- Raised awareness and funds to support digital literacy initiatives, contributing to the organization's mission of improving access to technology education in underserved regions
  - Strengthened advocacy and leadership skills by driving efforts to bridge the digital divide, helping underserved populations engage with new technologies

- Kumon Math and Reading Center • Lead Instructor** **2021-Present**
- Guided students to surpass their grade-level expectations in math and reading by developing individualized learning plans and fostering a growth mindset
  - Applied educational psychology principles such as positive reinforcement, leading to increased student engagement and significant improvements in academic performance

#### **AWARDS AND HONORS**

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- National Trumpet Competition High School Ensemble Division First Place (2024) and Semi-finalist (2023)
- Rotary Youth Leadership Award, Advisory Committee Selection
- hackTAMS First Place Hackathon Winner
- Texas TMEA All-Stater, 17th Best Trumpet in Texas (2023)
- 2x TMEA Region Orchestra and Area Member (2022, 2023)
- Invitation to Chicago Midwest Clinic (2023)
- 3x Acceptance into Greater Dallas Youth Orchestra (2022-2024)
- AP Scholar Award
- 2x Student of the Month Award (2021, 2023)

#### **SKILLS AND CERTIFICATIONS**

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- Programming Languages: Python, Java, React.js, JavaScript, HTML, CSS, C++
- Foreign Languages: English, Hindi (Fluent), French (Learning Proficiency)
- Specialization: Deep Learning using Neural Networks and Machine Learning
- 98-388:MTA: Introduction to Programming using Java issued May 2022
- Information Technology Specialist: Java issued May 2022