

# Zhongyin ZHANG

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## EDUCATION BACKGROUND

University of Pennsylvania	Master of Science in Engineering - MSE, Data Science	Jan 2023 - Dec 2024
The University of Texas at Austin	Master of Computer Science - MCS, Computer Science	Jan 2023 - Jan 2027
Queen's University at Kingston	Bachelor of Science - BS, Physics and Computing	Jul 2017 - Jul 2021
Peking University	Summer Certificate Student, Economics and Computing	Jul 2018 - Jun 2019

## WORK EXPERIENCE

### Queen's University at Kingston, Ontario, Canada

Academic Tutor

Oct 2020 - Present

- Delivered tutorials in Physics, Computing, and Math to first- and second-year university students
- Simplified complex concepts to enhance student understanding and improve problem-solving abilities
- Specialized in first-year Physics courses (PHYS 117, 118, 104, 106) and selected second-year courses (PHYS 213, 212, 239), as well as supporting courses (MATH 110, MATH 120, CISC 121)

### University of Pennsylvania, Pennsylvania, United States

Graduate Teaching Assistant

Dec 2023 - Dec 2024

- Supported course delivery by assisting with lectures, tutorials, and grading, ensuring student engagement and understanding
- In the summer semester, served as Project Head TA, overseeing the TA team and managing course operations
- Developed leadership, organizational, and mentoring skills while ensuring a seamless learning experience for students

### Dalian Han'ian Technology Co., Ltd, Liaoning, China

Data Analyst

Nov 2021 - Dec 2022

- Conducted data analysis to derive actionable insights for business decision-making
- Utilized data manipulation tools such as Python (Pandas, Numpy) and SQL to analyze large datasets efficiently
- Developed data visualizations using Matplotlib and Power BI to present key findings to stakeholders
- Supported data cleaning, transformation, and quality assurance efforts to ensure accurate and reliable data

### Queen's University at Kingston, Ontario, Canada

Academic Assistant for Faculty of Engineering and Applied Science

Apr 2022 - Jun 2022

- Delivered tutorials for APSC 112: Physics II, an engineering-focused course covering electricity and advanced mechanical concepts
- Facilitated student understanding of topics such as oscillations, waves, electric charge, DC circuits, electromagnetic induction, and more
- Provided 0.5 units of tutorial support, utilizing problem-solving exercises and hands-on demonstrations to reinforce core concepts
- Enhanced student engagement and comprehension through interactive learning sessions

### Alps Alpine Co., Ltd, Liaoning, China

Software Programmer (Internship)

Dec 2021 - Feb 2022

- Specialized in Android development using Java, with experience in designing, building, and publishing mobile applications
- Successfully developed and launched an Android Map and Navigation app, featuring real-time updates to improve user experience
- Demonstrated strong problem-solving skills and a focus on delivering high-quality, user-centric mobile solutions

### Google, Greater Toronto Area, Canada & Shanghai, China

Artificial Intelligence Engineer (Internship)

Sep 2021 - Nov 2021

- Worked on Artificial Intelligence (AI) projects focusing on natural language processing (NLP) and implementing machine learning techniques, including random forests and K-Means
- Coded extensively in Python, leveraging libraries like Pandas for data manipulation and analysis
- Utilized SQL for efficient database querying and management
- Gained hands-on experience in end-to-end development of data-driven solutions, enhancing expertise in AI and data science

## PERSONAL HIGHLIGHTS

- Proficient in Python (pandas, numpy, sklearn), SQL, Java, and web development (HTML, CSS, JavaScript)
- Experienced in Android development, AI, and machine learning, with hands-on project success in NLP, algorithms, end-to-end data solutions
- Passionate about solving real-world challenges through innovative, data-driven approaches
- Seeking roles as a **Data Analyst, Data Scientist, or Developer**