

# Xiaoxing Chen

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## EDUCATION

### Duke University

Durham, US

Master of Science in Computer Science

Aug 2025 - May 2027

Courses: Operating Systems, Distributed Systems, Language-Based Security, Cryptography, Blockchain, Privacy and Fairness

### The Ohio State University

Columbus, US

Bachelor of Science in Computer Science and Engineering Minor: Business

Aug 2021 - May 2025

- Honors: Dean's List (university level, 8 semesters)

- Courses: Information Security, Software Engineering Techniques, Foundations: Data Structures and Algorithms, Introduction to Computer Programming in Java, Computer Networking and Internet Technologies, Linear Algebra, Calculus1, Calculus 3,

## WORK EXPERIENCE

### University Dining Service

Columbus, US

Student Manager

May 2022 – May 2025

- Managed kitchen operations by reviewing weekly plans, coordinating schedules, and organizing department meetings, earning recognition from leadership
- Handled regular tasks by identifying and addressing customer requirements through direct and telephonic consultations
- Facilitated orientation and move-in week activities tailored for students by developing event themes, ensuring operational processes, and overseeing hospitality arrangements
- Supported colleagues with technical challenges by maintaining equipment, resolving issues, and executing routine system updates

### The Ohio State University

Columbus, US

Java Programmer

Aug 2022 - Dec 2022

- Applied SolidWorks to formulate early design concepts and produce detailed 3D engineering visuals, aiding the team in 4 projects
- Guided the design improvement process by working with different departments to carry out extensive documentation evaluations
- Constructed new software and website utilizing JavaScript, C, Ruby, HTML, and CSS, implementing thorough testing and debugging to achieve optimal performance

### Duke University

Durham, US

Graduate Teaching Assistant—CS521 Graphic Analysis

Aug 2025 – Dec 2025

- Assisted in teaching graduate-level course on graphic analysis, supporting topics including data visualization and analytical techniques
- Held office hours and recitation sessions to help students understand core concepts and improve problem-solving skills
- Graded programming assignments and exams, providing detailed technical feedback to improve code quality and analytical reasoning

## RESEARCH EXPERIENCE

### Investigation of the Self-Improving Algorithm of TikTok Based on Extensive User Interactions

Online

Author of "Investigation on the Self-Improving Algorithm of TikTok Based on Extensive User Interactions", accepted by 2024 International Conference on Engineering Management, Information Technology and Intelligence (EMITI 2024)

Jun 2024

- Examined TikTok's recommendation system, focusing on the application of Graph Neural Networks (GNN) for data understanding, Natural Language Processing (NLP) for enhancing content recommendations, and Generative Adversarial Networks (GANs) for predicting user behavior
- Crafted a survey to assess public views on TikTok's extensive data analysis framework, accumulated over 110 responses, and undertook data cleaning, organization, and visualization; concluded research and wrote a manuscript

## PROJECT EXPERIENCE

### Artificial Intelligence and Multi-Armed Bandit Algorithms Online Research Seminar

Online

Core Member, Supervised by Prof Osman Yağan, Carnegie Mellon University

Jan 2024 - Mar 2024

- Studied the classical multi-armed bandit model within the sequential decision-making framework and scrutinized explored its applications in recommendation systems its applications by attending lectures and completing coursework on the Explore-Then-Commit (ETC), Upper Confidence Bound (UCB), Thompson Sampling (TS) algorithms, and A/B testing
- Delivered a detailed presentation on the ETC algorithm, exploring its adaptive stopping criteria and regret analysis while fostering audience engagement through feedback and interpretation

### Professional Development Program: PD Talk at Oxford University Press

Online

Core Member

Feb 2024

- Participated in 15 lectures to critically discuss issues related to cross-cultural communication, global leadership, and multidimensional communication

## EXTRACURRICULAR ACTIVITY

### University Chinese Students and Scholars Society

Columbus, US

Core Member, Event Planning Department

Aug 2021 - Now

- Supervised the organization and on-site oversight of sports events and promotional activities, including the university badminton matches, for 3 consecutive years

## SKILLS & INTERESTS

Computer Skills: Python, Java, C, JavaScript, MySQL, MATLAB, SolidWorks, WireShark, ProgramExplore, ProgramMonitor

Languages: Mandarin (Native), English (Fluent), GRE Scores: 329 (Quantitative: 170)

Interests: Badminton, Swimming, Basketball