

Zixuan (Zoey) Wu

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EDUCATION

Columbia University <i>Master in Computer Science (Upcoming)</i>	Expected May 2026
Columbia University <i>Bachelor of Science in Computer Science</i>	Expected May 2025 GPA: 3.54/4.00
Relevant Coursework: Computer Networks, Data Structures in Java, Machine Learning, Database	

SKILLS & ACTIVITIES

Programming Languages: Python (OpenCV, Numpy, Pandas), Java, SQL, MySQL, C, HTML, CSS, JavaScript
Software Skills: Unix/Linux Environment, IDEs (VS, VS Code), Microsoft Office Suite (Excel, Word, PowerPoint), Github
Activities: Table Tennis Club (President), Columbia Business School AI Club Innovation Challenge (UI Designer)
Languages: Chinese (Native), English (Advanced Proficient), German (Intermediate)

WORK EXPERIENCE

Tencent Inc. Software Engineer Intern Shenzhen, China	July - Sep 2024
<ul style="list-style-type: none">Identified root causes using Process Explorer and Process Monitor of Windows system to diagnose and resolve app crashes, reducing uninstall rate by 10% and enhancing user retentionOptimized the homepage UI of the Tencent PC Manager App through C++ and XML source code modifications to improve visual clarity for users with long account names, achieving a 15% reduction in user-reported issuesDeveloped a Python script using the WeChat chatbot API to automate phishing data distribution, enabling real-time sharing of phishing data and improving the team's response time by 30%Created a calculator program using Qt plugins within Visual Studio, enabling perform basic calculations and linking to an online calculator	
Baidu Inc. Software Engineer Intern Beijing, China	June – July 2024
<ul style="list-style-type: none">Analyzed consulting data with SQL, debugged back-end communication with Google Chrome's Inspect Elements, and collaborated with telecom providers to diagnose and resolve 80+ client issues with intelligent phone services, improving service reliability and customer satisfactionDesigned and implemented dynamic dashboards with custom SQL and internal software to automate data reporting processes, enabling non-technical staff to access client data by simple inputs and boosting team productivity by 55%Monitored call records, extracted flagged keywords using SQL and compiled reports for the Product Manager, verified the legality of transactions conducted on Baidu's platform to safeguard compliance and reduce potential illegal risks	
Kimber Health, New York Wealth Planning Group Customer Service New York, NY	July – Sep 2023
<ul style="list-style-type: none">Assisted 100+ international students and families in navigating New York's government health insurance system, ensuring optimal coverage and school requirements complianceResolved client inquiries on insurance terminology, benefits, and procedures via WeChat, email, and phone, collaborated with insurance providers to deliver solutions for non-native clientsConducted competitor analysis by collecting and organizing product and marketing data into a comparative chart to support strategic planning	
Barnard A2R Lab Data Analyst New York, NY	Oct 2022 - Feb 2024
<ul style="list-style-type: none">Researched on STEM Education & Women's Accessibility, collected and analyzed biography data from 10,000 websites using Python and HTML parsing to study gender representation in roboticsProcessed datasets with Pandas and Excel to calculate the proportion of female researchers, identifying a significant gender gap in the fieldCo-authored the paper Underrepresentation of Women in Robotics Research (IEEE Robotics & Automation Magazine, 2024) advocating for enhanced gender equality in STEM education among educators and policymakers	

PROJECT EXPERIENCE

Blockchain Application Development Software Engineer New York, NY	April – May 2024
<ul style="list-style-type: none">Developed a blockchain application in Python using 4 Google Cloud Virtual Machines, simulated a cryptocurrency walletCreated blockchain broadcasting mechanisms using TCP and UDP protocols, ensuring efficient peer-to-peer communicationValidated transaction integrity by implementing a verification process with Merkle Tree structure and SHA-256Designed and executed fork resolution algorithms, leveraging longest chain and conflict resolution techniques to maintain blockchain consistency	