

Zixuan (Zoey) Wu

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EDUCATION

Columbia University

Expected May 2025

Bachelor of Science in Computer Science

GPA: 3.54/4.00

Relevant Coursework: Algorithm Analysis (Spring25), Data Structures in Java, Database, Machine Learning, Statistics

SKILLS & ACTIVITIES

Programming Languages: Python, 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

- Identified root causes using **Process Explorer** and **Process Monitor** to diagnose and resolve app crashes, **reducing uninstall rate** by 10% and enhancing user retention
- Optimized 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 issues
- Developed 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 with **Qt plugins** in **Visual Studio**, supporting basic calculations and online calculator linking

Baidu Inc. | *Software Engineer Intern* | Beijing, China

June – July 2024

- 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 satisfaction
- Designed 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

- Assisted 100+ international students and families in navigating New York's government health insurance system, ensuring optimal coverage and school requirements compliance
- Resolved client inquiries** on insurance terminology, benefits, and procedures via WeChat, email, and phone, collaborated with insurance providers to deliver solutions for non-native clients
- Performed competitor analysis by gathering and structuring product and marketing data into a comparative chart for strategy

Barnard A2R Lab | *Data Analyst* | New York, NY

Oct 2022 - Feb 2024

- 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 robotics
- Processed datasets with **Pandas** and **Excel** to calculate female researcher proportions, identifying a gender gap in the field
- Co-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

Web App Development | *Software Engineer* | New York, NY

Dec 2024 – Jan 2025

- Developed a **Python**-based web app using **Streamlit** and **LLM APIs** to match student resumes with job descriptions, improving recommendation accuracy by 50%
- Led the application team, designing a **database** with **sqlite3** and implementing **back-end** functions for data storage, retrieval, API calls, and result storage, ensuring users receive accurate and up-to-date matching results
- Proposed and implemented **user-friendly features**, including sorting, collapsible tables, and search by student and company names, boosting user productivity by 60%