

Yue (Elsie) Wu

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EDUCATION

University of California San Diego

Master of Science in Computer Science

San Diego, CA

Sept. 2024 – June 2025(expected)

New York University

Bachelor of Arts in Computer Science — GPA: 3.73

New York, NY

Sept. 2020 – May 2024

Related Courses: Basic Algorithms, Computer Systems Organization, Computer Networks, Data Structures, Data Management and Analysis, Operating Systems, Object Oriented Programming, Parallel Computing

EXPERIENCE

JD.com, Inc

Software Engineer Intern

Jun. 2023 – Aug. 2023

Shanghai, China

- Participated in the design and development of data visualization modules, focusing on chart functionalities for a Business Intelligence (BI) tool, utilizing the company's proprietary framework built atop **Spring Boot**.
- Implemented core back-end functionalities using **Java**, including chart generation, data retrieval for search queries, and the update mechanisms to ensure data integrity and responsiveness.
- Implemented multiple components of the module using **Vue.js** framework, focusing on the chart displays, and data-driven search lists.
- Designed a **MySQL** database architecture, formulating efficient schema and indices that resulted in optimized data storage solutions for user information and intricate chart data.

PROJECTS

WuniChat - Real-Time Chat Application | *Express.js, Node.js, Socket.IO, JavaScript* Mar. 2024 – Apr. 2024

- Developed a real-time chat application using **Node.js**, **Express**, and **Socket.IO**, enabling users to join and communicate in specific chat rooms.
- Implemented **WebSocket** technology for real-time messaging and updates, enhancing the chat interaction.
- Managed user authentication and room-based functionality, ensuring organized communication among users.

Face Recognition Web Application | *React.js, PostgreSQL, Express.js, Node.js* Sept. 2023 – Dec. 2023

- Designed and developed a web application capable of recognizing faces in user-uploaded images through an integrated **machine-learning API**.
- Incorporated Clarifai face-detection API within the **React** framework to analyze and identify faces within images sourced from URLs.
- Implemented features including user authentication, detection overlays on images, user ranking system, etc.
- Designed **RESTful API** endpoints with **Express.js** and optimized **PostgreSQL** databases for efficient data management.

Mirai Botnet Research Project | *Linux* Apr. 2023 – May 2023

- Conducted research on Mirai Botnet, a famous malware, to understand its structure and functionality.
- Deployed and configured the Mirai botnet on **Linux** systems, involving the setup of Loader, Report Server, and Command and Control systems.
- Performed a comprehensive analysis of the Mirai botnet's mechanisms exploiting **IoT** device vulnerabilities and **DDoS** attack strategies.
- Utilized **Wireshark** to monitor and capture real-time **TCP** packet transmissions to detect the attack.

Interactive VR Maze Game | *C#, Unity* Oct. 2021 – Dec. 2021

- Implemented interactive functions within the maze using **C#** to enhance gameplay, including character navigation, item collection mechanics, and dynamic terrain modification with key items.
- Built the maze's structure in **Unity**, crafting intricate terrain designs and integrating immersive sound effects and animations to enrich the user experience and presented at the school's Interaction Design Exhibition.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, C#, PostgreSQL, JavaScript, HTML/CSS

Technologies/Framework: React.js, Node.js, Spring Boot, Bootstrap, MongoDB, Express.js