# Јінао Үе

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### **EDUCATION**

University of Houston Dec 2025

 $BS\ in\ Computer\ Science \ Houston,\ TX$ 

WORK EXPERIENCE

HIPPSC June 2023 – Present

Software Developer Intern

Shenzhen, China (Remote)

- Developed a web application for HIPPSC's modular tooling series, automating 12,000+ tool combinations. Enabled end-users to customize tools and download 3D files directly, reducing tooling querying and quoting time by 80%
- Collaborated on the R&D of tool setup machines and robotic arm integration, contributing to the design of user-friendly system interfaces and **enhancing the customer onboarding process** to ensure seamless adoption
- Implemented a multilingual feature using i18next, enhancing accessibility of the company website across the globe
- Developed a robust **email API service** to capture user input from the website, facilitating seamless communication by dispatching emails to the sales team and archiving customer data in the company's database
- Refactored the frontend architecture into component-based design, integrated with **AWS S3 and CloudFront**, significantly boosting site performance and elevating the user experience across different geographic regions

Tiger Valve Company

June 2021 - August 2021

Data Analyst Intern

Houston, TX

- Implemented a **cloud-based barcode scanning system** that enabled remote, real-time inventory access, significantly improving operational efficiency, tracking accuracy, and scalability compared to traditional local systems
- Crafted weekly reports with visualizations on key warehouse metrics—that empowered management to make timely strategic decisions, resulting in a 20% increase in space utilization, as reported by the warehouse supervisor
- Collaborated with the engineering team to securely manage Google Workspace accounts, ensuring the deletion of former employee profiles and retrieval of associated warehouse data, effectively mitigating risks of data leakage

# SELECTED PROJECTS

News Personalization Web App | React, AWS, Express.js, PostgreSQL, Redis, LLM

November 2024

- Integrated multiple external APIs—including News API and GNews API—to fetch and categorize real-time news personalized to user preferences; optimized data retrieval with Redis caching, reducing latency by 40%
- Incorporated LLMs via **OpenAI API** to provide personalized summaries for quick reads, perform sentiment analysis, and conduct fact-checking of news articles, **enhancing user engagement and content trustworthiness**
- Architected and deployed a fully serverless and scalable infrastructure using **AWS Amplify** for full-stack deployment, **AppSync** for GraphQL API management, and **DynamoDB** for high-performance, flexible data storage

File Server  $\mid C++, Boost. Asio, Poco$ 

November 2024

- Built a cloud storage service using C++, leveraging Boost.Asio for asynchronous networking, Poco libraries for file transfer protocols, and multi-threading to manage hundreds of concurrent connections effectively.
- Optimized server infrastructure for **scalability** and improved **network throughput**, integrating efficient I/O handling, load balancing algorithms, and custom error handling to support large-scale file operations.
- Implemented robust SSL/TLS encryption, OAuth 2.0 authentication, and secure token management, ensuring data transmission integrity, user authentication, and compliance with modern industry security standards.

#### Network Penetration | Kali Linux

November 2023

- Conducted targeted network surveillance using airodump-ng to capture essential data packets for security analysis
- Applied cryptographic analysis techniques to **decrypt WEP/WPA/WPA2 protocols**, extracting initialization vectors and keys from the captured data, underscoring security vulnerabilities of the targeted networks
- Leveraged decryption keys to **conduct a detailed analysis of client-router packet** exchanges, extracting sensitive data such as user credentials and session tokens and understanding security vulnerabilities extending beyond network perimeters

## TECHNICAL SKILLS

Languages: Python, SQL, C++, JavaScript, Java

Frameworks: Boost. Asio, Express, React, Redis, NumPy, Poco, Pandas, Node.js

Databases: AWS, Firebase, GCP, MongoDB, MySQL, PostgreSQL

Operating Systems: Kali Linux, Windows, MacOS