

Hui Kong



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Education

Northeastern University

Master's, Computer Science

- Relevant coursework: Mobile Application Development, Object-Oriented Design, Discrete Structures, Data Structures and Algorithms (Top **10%** globally in the LeetCode Algorithms Contest), and Web Development

Sep 2023 - Dec 2025

GPA: **4.0/4.0**

London School of Economics and Political Science (LSE)

Master's, Social Anthropology

Sep 2019 - Nov 2020

Tongji University

Bachelor's, Chinese Language Literature

Sep 2014 - Jul 2019

Professional Experience

Khoury College of Computer Science, Northeastern University

Research Apprentice, mentored by Professor Michael Ann DeVito

- Contributed to a research project examining the impact of social platform changes on marginalized communities.
- Analyzed social media data to identify patterns and trends in how marginalized communities respond to policy shifts and threats.

Seattle, WA, USA

Sep 2024 - Dec 2024

InfiniFlow | Python, Linux, Docker, Flask, ES, Redis

Software Engineer Intern

- Developed the **SDK** and **HTTP API** for the open-source **RAG** (Retrieval-Augmented Generation) engine - [ragflow](#) with over **14.8k** GitHub stars as the **No.5** contributor; increased API efficiency by **70%**.
- Integrated **LLM models**, including MiniMax, into the system; extended model functionality by **11%** to enhance performance.
- Updated **Docker** environments for clients; streamlined deployment processes; reduced setup time by **120%**.

Shanghai, China

May 2024 - Aug 2024

One Community Global | React, JavaScript, Node.js

Full-stack Software Engineer Intern

- Developed the [Highest Good Network](#) for member management using the **MERN** stack (**MongoDB**, **Express.js**, **React.js**, **Node.js**); designed and implemented **RESTful APIs** in the backend; integrated user authentication and data validation.
- Conducted Pull Request (PR) reviews; ensured code quality, adherence to coding standards, and system-wide consistency; improved software maintainability and robustness; reduced code defects by **10%**.

Remote, USA

May 2024 - Aug 2024

Northeastern University

Graduate Teaching Assistant for Discrete Structures

- Graded assignments; invigilated exams; facilitated communication between students and faculty; ensured timely feedback for over **30** students.
- Held weekly office hours; addressed student inquiries; provided academic support and clarification on course materials; increased student engagement by **80%**.

Seattle, WA, USA

Jan 2024 - Apr 2024

Uranus Research (Hedge Fund AUM: \$1000 million)

CEO Assistant

- Innovatively executed **20+** promotional strategies for social media channels. Authored **20+** impactful new media articles, resulting in a cumulative page view count **1.8m+**. Moreover, successfully grew the fan base by a remarkable **144%**.
- Cultivated strategic partnerships with prominent media outlets, securing **5+** valuable media resources, elevating Uranus Research from obscurity to prominence within the Shanghai hedge fund arena.
- Led talent acquisition with a **98%+** success rate for top-tier candidates.

Shanghai, China

Nov 2021 - Sep 2022

Projects

Take-out Application | Java, Spring Boot, MySQL, Redis, JWT, MyBatis

Individual Developer

- Developed a dual-system application for sellers and users, incorporating functionalities like employee and dish management.
- Utilized **Redis** for caching data, reducing average query time from **127ms** to **23ms**.
- Resolved data consistency issues with a delayed deletion and proactive update strategy.
- Implemented a **Bloom filter** to prevent cache penetration.
- Created a coupon system and addressed overselling issues using an **optimistic locking mechanism**.
- Employed **JWT** tokens with custom interceptors for user authentication and used **ThreadLocal** to secure authorization logic.
- Deployed **Nginx** as an HTTP server, setting up reverse proxy and load balancing.
- Integrated **WebSocket** for real-time order notifications to the front-end.
- [Link to project](#)

Seattle, WA, USA

August 2024

MemEcho (Social Media App) | Java

Team Leader

- Designed robust authentication processes; implemented registration, Google Account sign-in, sign-out, and forgot-password features; increased security and user retention by **80%**.
- Developed both private and public server features using **Firebase**; addressed varying user privacy needs.
- Engineered chat functionalities; enabled direct user communication within the platform; improved user interaction by **90%**.
- Developed search capabilities; optimized efficiency in finding specific posts and users; reduced search time by **100%**.
- [Link to project](#)

Seattle, WA, USA

Feb 2024 - Apr 2024

Skills

Skills: Java, Python, C/C++, Git, HTML/CSS, Linux, Android, Docker, PyTorch, MySQL, JavaScript, NodeJS, React, OS, Distributed Systems, Kubernetes, Microservice, AWS

Languages: Chinese, English, German, Japanese, Spanish

Interests: Singing, hiking, coding