

Yuxuan Zhao

🌐 [Portfolio](#) | 🎓 [Google Scholar](#) | [in LinkedIn](#) | @ yuxuan.zhao2024@gmail.com | # 401-688-8189

EDUCATION

Brown University, *Master of Science in Computer Science* Sept. 2021 - May 2023
Harvard University, *Cross Registration in Data Structure and Algorithm* Jan. 2022 - May 2022
University of Liverpool, *Bachelor of Science in Information and Computing Science* Sept. 2016 - July 2020

WORK EXPERIENCE

Fidelity Investments, *Senior Software Engineer* July 2023 - Present

Trading Dashboard | New streaming experience for 51.5M customers (+3.3M YTD)

- Architect: iterated over UX designs and product requirements, architected and implemented seamless isomorphic solutions using **Angular** and **Node.js** within a 2-week Agile sprint cycle
- Test: achieved 100% code coverage with **Jest** and **Jasmine**, automated integration tests and system tests with **Selenium** and **Karate**
- Release: planned a series of Minimum Viable Products, created rollout plans, conducted A/B testing, and deployed production installs with **Jenkins** and **Planit**
- Post-release: managed feature toggles and collected metrics in **LaunchDarkly**, monitored **Splunk** dashboards for on-call support

Option Summary | Star business that attracts new investment \$48M YTD

- Led the design and implementation of **GraphQL** schema and resolvers
- Created **Schematic** rules to automatically generate or modify code templates and layouts

CGI, *Software Engineer Intern* June 2022 - Sept. 2022

- Utilized **React-window** for lazy loading, leveraged **Reselect** to optimize expensive function calls and compute derived data from the **Redux** store state
- Designed **RESTful APIs** with **Node.js** for HR applications and created validations on JSON forms

Cisco Systems, *Software Engineer Intern* Mar. 2021 - Aug. 2021

Webex | Enterprise-standard app serving 13M+ users for meetings, messaging, and calls

- Developed **Android** Webex's calling features, achieving 100% code coverage with **Espresso**
- Deployed a **Jenkins** pipeline in CI/CD to automate end-to-end tests, reducing testing time by 40%

SenseTime Group, *Software Engineer Intern* Sept. 2020 - Mar. 2021

Lenovo Research, *AI Intern* July 2019 - Aug. 2019

PROJECTS

Alfred RAG | LLM RAG for prompted weak supervision Python

- Developed a Retrieval-Augmented Generation (RAG) system, integrating **Faiss** for efficient vector search and OpenAI's GPT models for natural language queries
- Created a custom embedding management pipeline using **PyTorch** and Faiss, optimizing vector search with IVF and IVF_SQ8 index types, enabling scalable and fast document retrieval

Puddlestore | Distributed File System GoLang

- Enabled distributed access to file system objects using Global Unique Identifiers, implemented replication by adding salt to ensure data redundancy and availability
- Ensured data consistency across nodes with the **Raft** consensus algorithm, establishing a fault-tolerant and synchronous update mechanism for maintaining accurate data pointers

SKILLS

Languages: JavaScript, TypeScript, HTML, CSS, GraphQL, Kotlin, GoLang, SQL

Frameworks & Tools: AWS, Kubernetes, Docker, REST, Angular, React, Node.js, MongoDB

Testing: Jest, Jasmine, Selenium, Karate, Jenkins, GitHub CI/CD