

ZEBIN GUO

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EDUCATION

Georgia Institute of Technology

Master's, Computer Science

August 2024 - January 2026

University of Hong Kong

Bachelor's, Computer Science

September 2020 - July 2024

GPA: 3.6

PROFESSIONAL EXPERIENCE

Alibaba Group

Software Development Engineer (Intern)

June 2023 - August 2023

- Designed and implemented high-performance RESTful APIs using the Spring framework, significantly improving backend system efficiency. Integrated MyBatis to enable real-time data synchronization and automated SQL query generation, ensuring data consistency and operational reliability.
- Developed a responsive and dynamic web application platform using the React-based Ice3 framework, incorporating the Ant Design UI library to optimize interface design and user experience. Enhanced real-time interaction between frontend and backend services while efficiently addressing complex display challenges through tailored customization and optimization of React's rendering logic.
- Built the Playground and Demo for the self-developed mobile framework DynamicX using Kotlin, showcasing its functionality and validating core scenarios. This contributed to enhanced development efficiency and promoted broader adoption of the framework.

Shining 3D Techonology

C++ Development Engineer (Intern)

June 2022 - August 2022

- Developed a visualization teaching platform for geometry topics using the Qt visualization library, enabling real-time interaction and off-screen rendering for efficient and dynamic presentations.
- Contributed to the development of intelligent dental alignment software by implementing adaptive acquisition of multi-bracket parameters and converting them into spatial coordinate systems, providing technical support for precise orthodontic corrections.

Brand New Data

Software Development Engineer in Test (Intern)

June 2021 - July 2021

- Managed the grid personnel database using SQL, significantly improving performance through query optimization and effectively enhancing the stability and operational efficiency of backend systems.

PROJECTS & OUTSIDE EXPERIENCE

Smart Cities: Intelligent Traffic Sign System and Curve Safety Assessment System

Research Assistant (Mobile Developer & Full Stack Developer)

Atlanta, GA, USA

August 2024 - Present

- Rebuilding the existing Android application from the ground up using React Native, creating an efficient cross-platform solution. Fully enabling cross-platform compatibility with support for real-time sensor data processing, road condition monitoring, and intelligent alerts, significantly enhancing user experience and system adaptability. Designing and implementing a robust cloud-based data interaction network to support offline data collection and real-time online processing, optimizing data flow management to improve overall operational efficiency and data accuracy.
- Developing and optimizing a Flask-based backend system integrated with PostgreSQL and AWS cloud services, substantially improving system performance, stability, and scalability. Building a JavaScript-based video annotation platform with improved user interface logic and enhanced responsiveness. Additionally, designing a real-time traffic sign monitoring dashboard to enable more efficient user interactions and advanced data visualization capabilities.

SKILLS

Skills: C/C++, Computer Networking, Data Structures & Algorithms, Java, HTML/CSS, JavaScript, Node.js, Python, React.js

Languages: Mandarin, English