ZHAOZHAN HUANG

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EDUCATION

Boston University Sep 2023 – Jan 2025

MS, Computer Science (GPA: 3.7)

Boston, MA

Sun Yat-sen University

Sep 2019 - June 2023

BS, Information and Computing Science

Guangdong, China

TECHNICAL SKILLS

Languages: C, C++, JavaScript, TypeScript, Python, Kotlin, Golang, HTML/CSS, SQL **Frameworks/Packages**: React.js, Express.js, Next.js, Android, NumPy, Pandas

Technologies/Developer Tools: Git/GitHub, MySQL, MongoDB, Azure, Docker, Linux/Bash Shell, Android Studio

PROJECTS EXPERIENCE

BU Spark! Bad Landlord | Next.js, TypeScript, PostgreSQL, Git

May 2024

- Directed an agile team of 4 to create a **Next.js** frontend, showcasing property violations in the Boston area through dynamic data visualization. Utilized Git and GitHub for efficient version control and collaboration.
- Implemented a responsive map using **Mapbox GL JS** to pinpoint landlord locations, enhancing user interaction and accessibility. Employed **Tailwind CSS** to accurately translate UX/UI designs from **Figma** into functional user interfaces.

MapReduce System | Go, Shell

Jan 2024

- Engineered a simplified **MapReduce** framework leveraging mutexes, channels, and condition variables within **Goroutines** to ensure efficient parallel computation and robust fault tolerance.
- Architected and executed a fault-tolerant system for both Map and Reduce phases, incorporating a dynamic
 master-worker model for task reassignment in the event of node failures, thereby maximizing data processing efficiency
 and system scalability.

Reading List Web App | React, JavaScript, Express, MongoDB, Git

Oct 2023

- Developed a comprehensive full-stack application facilitating user authentication, goal setting, and progress tracking, integrating React and Redux Toolkit for front-end state management, with Express and MongoDB Atlas for scalable REST API backend services.
- Adopted MVC architecture to enhance development efficiency and code maintainability. Utilized Bulma CSS for crafting
 a responsive and engaging user interface, significantly improving user experience and satisfaction.
- Automated deployment and scaling through CI/CD pipelines to Azure App Service, employing GitHub Actions to ensure
 continuous availability and scalability.

Computer Graphics Course Project | Python, OpenGL

Sep 2023

- Integrating pyopengl into GUI created by wxpython to show carious geometric surfaces.
- Crafted custom shaders in **GLSL** to simulate advanced illumination models and visual effects, such as texture and normal mapping, elevating the realism and aesthetic quality of 3D environments.

RELEVANT COURSEWORK

- Data Structures & Algorithms
- Object Oriented Programming
- Network

Operating System

Database

· Probability & Statistics

OTHERS

- Microsoft Certified: Azure Fundamentals, Certification, 2023
- Personal Website: https://zhzh258.github.io/about/