Kobe Guo

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EDUCATION

Vanderbilt University   Nashville, TN
Bachelor of Science in Computer Science, Minor in Data Science   *Expected May 2024*
- GPA: 3.43
- Relevant Coursework: Algorithms, Data Structures, Database Management Systems, Machine Learning, Programming Languages, Discrete Structures, Data Science, Linear Algebra, Differential Equations

EXPERIENCE

Software Engineer Intern   June 2023 – Aug. 2023
Nourish'd   *Cape Town, South Africa*
- Collaborated in the development of a feature-rich React Native app for food ordering, resulting in a 30% increase in user engagement, evidenced by a 50% rise in daily active users and a 20% increase in average session duration as measured by app analytics.
- Enhanced backend operations efficiency by 25% by transitioning from mySQL to Firebase, improving scalability and resulted in faster data retrieval times due to real-time data synchronization.

PROJECTS

Twitter Clone | *Next.js, JavaScript, RESTful APIs, Firebase, Redux, Tailwind CSS*   Github | View Project
- Engineered a real-time Twitter-like application with Next.js and React, integrating Firebase for robust user authentication and real-time data management.
- Employed Redux for reliable state management and utilized Tailwind CSS for responsive UI, enhancing the user experience.

2D Action RPG Game | *GameMaker Studio, GML, C++*   Github | View Project
- Applied GML (a scripting language that combines elements of C++, C#, and JavaScript) to design a 2D action RPG with mechanics like character movement, combat system, inventory, and game state management.
- Debugged and optimized game code, conducting peer play-tests for iterative improvement on game balance and player experience.

Restaurant Website | *React.js, JavaScript, Bootstrap*   Github | View Project
- Designed and developed a dynamic and user-friendly website using React.js, showcasing the menu, location, and other essential information for a family-owned restaurant, boosting customer engagement as measured by increased online interactions and positive user feedback.
- Utilized JavaScript to implement interactive features like a real-time menu search and filter functionality, enhancing user experience and ease of navigation.

TikTok Video Scraper | *Python, BeautifulSoup, Selenium*   Github | View Project
- Devised a Python web scraper using BeautifulSoup and Selenium for efficient extraction of TikTok profiles and watermark-free video content.
- Leveraged Selenium WebDriver for reliable browser automation, speeding up data retrieval and enhancing content quality.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C++, SQL, HTML/CSS
Frameworks: React.js, Next.js, Node.js, RESTful APIs
Libraries: Redux, Firebase
Developer Tools: Git, Github, Visual Studio Code, JetBrains, GameMaker Studio, MySQL

ADDITIONAL

Languages: English (Fluent), Mandarin Chinese (Conversational)
Hobbies: Gym, Swimming, Video Games