Kobe Guo

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EDUCATION

Vanderbilt University — Nashville, TN
Bachelor of Science in Computer Science, Minor in Data Science — *Expected May 2024*

- 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 React Native app for food ordering, resulting in a 30% increase in user engagement.
- Utilized Firebase to securely manage over 5,000 product and user records, improving backend operations efficiency by 25%.
- Employed GitHub for version control, contributing to 15+ merged pull requests that enhanced feature sets and fixed bugs.

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.

Feralands 2D Action RPG | *GameMaker Studio, GML* — Github | View Project

- Applied GML (a 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.

Touchdown Wings 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, enhancing customer engagement.
- 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++, HTML/CSS, SQL, R, GML
Frameworks: React, Next.js, Node.js, RESTful APIs, Bootstrap, Tailwind CSS
Libraries: Redux, Firebase, pandas, NumPy, Matplotlib, BeautifulSoup, Selenium
Developer Tools: Git, Github, Visual Studio Code, PyCharm, CLion, GameMaker Studio, MySQL

ADDITIONAL

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