

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

- Achieved a 30% increase in user engagement as measured by app analytics, by collaborating in the development of a feature-rich React Native app for food ordering.
- Improved backend operations efficiency by 25% as measured by faster data retrieval times, by implementing Firebase to securely manage over 5,000 product and user records.
- Enhanced the app's feature set and stability as measured by the successful deployment of 15+ pull requests, by employing GitHub for version control and contributing to bug fixes and new features.

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, 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++, HTML/CSS, SQL, R, GML

Frameworks: React.js, 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