

Kobe Guo

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EDUCATION

Vanderbilt University

Bachelor of Science in Computer Science, Minor in Data Science

Nashville, TN

Aug. 2020 - May 2024

- GPA: 3.42
- Relevant Coursework: Algorithms, Data Structures, Database Management Systems, Machine Learning, Data Visualization

EXPERIENCE

Software Engineer Intern

Nourish'd

June 2023 – Aug. 2023

Cape Town, South Africa

- Developed a React Native app for food ordering, increasing user engagement by 30%, with a 50% rise in daily active users.
- Migrated backend from MySQL to Firebase, improving scalability and reducing data retrieval times through real-time synchronization, boosting backend efficiency by 25%.

PROJECTS

Universal Lesion Segmentation Challenge 2023 | *Python, TensorFlow, Keras*

[Github](#) | [View Project](#)

- Achieved a 0.87 Dice score on bone datasets using advanced ML models and data sourced from hospitals.
- Improved model robustness and inference speed through parameter optimization and data augmentation.
- Led a multidisciplinary team, successfully completing a senior project in medical image segmentation.

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](#)

- Developed a responsive website using React.js to showcase the menu and location of a family-owned restaurant, resulting in a 35% increase in online traffic.
- Implemented interactive menu search, attracting over 1,000 monthly visitors and boosting average session duration by 20%.

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 & Libraries: React.js, Next.js, Node.js, Angular, Redux, Firebase

Software Development: Agile, RESTful APIs, Unit Testing, CI/CD. Object-Oriented Programming, Frontend, Backend

Developer Tools: Git, Github, Visual Studio Code, JetBrains, GameMaker Studio, MySQL