Kobe Guo

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EDUCATION

Vanderbilt University   Nashville, TN
Bachelor of Science in Computer Science, Minor in Data Science   Aug. 2020 – May 2024

Tullahoma High School   Tullahoma, TN
Salutatorian   Aug. 2016 – May 2020

PROJECTS

Twitter Clone | *Next.js (React), JavaScript, Firebase, Redux, Tailwind CSS*   Github | View Project
- Developed a real-time social media application that mimics the functionality of Twitter, using Next.js as the front-end framework, with React for creating reusable UI components.
- Implemented Firebase for back-end services including user authentication, data storage, and real-time data updates, ensuring a robust and secure data management.
- Utilized Redux for state management, ensuring consistent and predictable behavior of the application.
- Leveraged Tailwind CSS for rapid and responsive UI development, enhancing user interaction and overall user experience.

Feralands 2D Action RPG | *GameMaker Studio, GML*   Github | View Project
- Developed understanding and applied knowledge of GML, a language that combines elements of C++, C#, and JavaScript
- Implemented game mechanics including character movement, combat system, inventory management, saving/loading game states, and NPC interactions
- Applied problem-solving skills to debug game code, optimize performance, and improve game functionality, demonstrating strong troubleshooting capabilities and attention to detail
- Collaborated with peers for play-testing, feedback, and iterations on game balance and player experience

TikTok Video Scraper | *Python, BeautifulSoup, Selenium*   Github | View Project
- Constructed a Python script employing BeautifulSoup and Selenium for automated and efficient web scraping of TikTok user profiles.
- Implemented an algorithm to accurately locate and download videos without any watermarks, ensuring high-quality content extraction.
- Utilized Selenium WebDriver for automating browser actions, significantly increasing the speed and reliability of data retrieval.

TECHNICAL SKILLS

Languages: Python, JavaScript, C++, HTML/CSS, R, GML
Frameworks: React, Next.js, Tailwind CSS
Libraries: Redux, Firebase, pandas, NumPy, Matplotlib, BeautifulSoup, Selenium
Developer Tools: Git, Github, Visual Studio Code, PyCharm, CLion, GameMaker Studio

EXPERIENCE

Restaurant Manager   May 2016 – Aug. 2020
Touchdown Wings   *Tullahoma, TN*
- Managed daily restaurant operations, ensuring a high-quality dining experience for guests and maintaining a positive, productive working environment for the team.
- Trained and supervised a team of 15+ employees, promoting excellent customer service and adherence to safety and quality standards.
- Responsible for inventory control and ordering supplies, demonstrating effective organizational and planning skills.