Doniyor Ismatilloev

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EDUCATION

University at Buffalo, The State University of New York   Buffalo, NY
Bachelor of Science in Computer Science   *Expected Graduation: Fall 2024*
GPA: 3.76
Honors: Dean's List (Spring 2022, Spring 2023), Pride of New York Scholarship

PROJECTS

Transform **UB Hacking Winner** | *React, Django, Typescript, Python,*   November 2022
- Developed a full-stack application (React, Django) uses large language models as educational tutors
- Built and deployed RESTful API endpoints to ensure project scalability and data persistence capabilities
- Leveraged the embedding of a neural network (resnet50), and a text-image model (DALLE-2) to create an automated drawing challenge
- Recognized as the 1st place winner in the UB Hacking Machine Learning/Artificial Intelligence Category, showcasing a high-quality and innovative project

Dynamic Memory Allocation | *C*   November 2022
- Engineered a dynamic memory allocation system within the UNIX Terminal, employing efficient pool allocation techniques
- Completed in C, utilizing a highly efficient pool allocation, dynamically allocating memory on the heap
- Devised a block header mechanism to store memory block sizes, enabling accurate deallocation by users
- Replicated the functionalities of essential commands (malloc, calloc, realloc, free) seamlessly, seamlessly consolidating the system into the Linux Terminal environment.

CDC Covid-19 Graph | *Python, HTML, JavaScript, Ajax, Bottle Route, Plot.ly, CSV Files*   December 2021
- Completed a Full-Stack application using information from the CDC website and displayed on graphs
- Constructed pie charts and graphs of vaccinated percentage per state and percentage of Vaccine used with Plot.ly
- Integrated seamless communication between the front-end and back-end through JSON dumps and loads, ensuring efficient data transfer and synchronization
- Deployed the web application on a robust bottle server, employing AJAX to fetch real-time data from external sources, increasing user experience and accessibility

EXPERIENCE

Resilience, Inc. - Social Emotional Learning Programs   July 2023 – Present
Software Developer   *Remote*
- Utilized React Native framework to build and enhance the SELENA app, ensuring cross-platform compatibility and optimal user experience on both iOS and Android platforms
- Collaborated closely with UI/UX designers to implement intuitive and visually appealing interfaces align with the app's Social Emotional Learning (SEL) objectives, resulting in a user-friendly and engaging design
- Demonstrated strong problem-solving skills, finding innovative solutions to technical challenges and continuously seeking opportunities to optimize app performance and user satisfaction
- Enhanced app functionality by integrating external APIs and analytics tools, leveraging user engagement data for informed decisions

University at Buffalo   January 2023 – Present
CSE Undergraduate Teaching Assistant   *Buffalo, NY*
- Co-instructed engaging recitation classes, fostering active student participation and comprehension
- Delivered comprehensive grading of assignments and exams, providing constructive feedback to over 100 students
- Demonstrated exceptional communication skills while answering students' questions during weekly office hours and recitation periods
- Hosted frequent office hours to provide one-on-one academic support, assisting students with course material, assignments, and conceptual understanding

TECHNICAL SKILLS

Languages: Python, Scala, C, Java, Node.js, MySQL, MIPS Assembly
Web Development: HTML, CSS, JavaScript, TypeScript
Frameworks: React, Bootstrap, Tailwind CSS, Bottle Web Framework, Django
Developer Tools: Emacs, Git, VS Code, IntelliJ, CLion, Figma, Microsoft Office, Photoshop