Doniyor Ismatilloev

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EDUCATION

University at Buffalo   Buffalo, NY
Bachelor of Science in Computer Science   *Expected Graduation Dec 2024*
GPA: 3.75, 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) that 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
- Designed a Dynamic Memory Allocation equivalent to malloc, calloc, realloc, and free in the UNIX Terminal
- Implemented in C, utilizing a highly efficient pool allocation, dynamically allocating memory on the heap
- Stored the size of the block of memory in a block header so the user would be able to free the correct size
- Successfully replicated the powerful functionalities of the malloc, calloc, realloc, and free commands, seamlessly integrating the application into the Linux Terminal environment

Self-Checkout GUI | *Scala*   March 2021
- Developed a user-friendly Self Checkout GUI using Scala's object-oriented programming paradigm
- Implemented a scanner that accurately retrieves and displays the price of items associated with the barcode
- Provided customers with a clear and concise summary of their purchases, including the subtotal, tax, and total, while also enabling the use of loyalty cards

CDC Covid-19 Graph | *Python, HTML, JavaScript, Ajax, Bottle Route, Plot.ly, CSV Files*   December 2021
- Developed a Full-Stack application to take the information from the CDC website and display them on graphs
- Built pie charts and graphs of the Fully vaccinated percentage per state and the percentage of which Vaccine used with Plot.ly
- Communicated with the front and back end using JSON dumps and loads
- The web application runs on a bottle server that uses AJAX to fetch the necessary data

EXPERIENCE

University at Buffalo   January 2023 – Present
Undergraduate Teaching Assistant   Buffalo, NY
- Facilitated and co-instructed engaging recitation classes for undergraduates
- Conducted comprehensive grading of assignments and exams, providing constructive feedback to students
- Demonstrated exceptional communication skills by answering students' questions effectively and efficiently
- Hosted frequent office hours to provide academic support and guidance to students

The Medicine Chest Brooklyn NY, 11230   Nov. 2019 – Present
Cashier(Seasonal)   Brooklyn, NY
- Processed Hundreds of transactions a day swift and effectively for best customer experiences
- Collaborated with Co-Workers to build schedules fitting everyone needs weekly
- Advised 20+ customers a day in acquiring specific items and recommended Alternatives Products
- Maintained cleanliness and order of checkout areas and lanes hourly ensuring customer satisfaction

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