

# Doniyor Ismatilloev

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## EDUCATION

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### University at Buffalo

*Bachelor of Science in Computer Science*

GPA: 3.7, Honors: Dean's List, Pride of New York Scholarship

Buffalo, NY

*Expected Graduation Dec 2024*

## PROJECTS

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### 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 capability
- 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 the 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

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### 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 to provide 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 – Jun 2021

*Cashier*

*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

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**Languages:** Python, Scala, C, Java, Node.js, MySQL

**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