Muntaqa Maahi

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EDUCATION

University At Buffalo — Buffalo, NY
Bachelor of Science in Computer Science — *Graduation: May 2023*
- **Relevant Courses:**
  Algorithms and Complexity, Database Systems, Data Structures, Computer Architecture, Computer Vision

EXPERIENCE

Coding Instructor — May 2020 - April 2023
Kidzwhiz — *Buffalo, NY*
- Mentored 50+ students in a hands-on, project-based learning environment, achieving a 100% project completion rate, which significantly enhanced their problem-solving skills and software development proficiency.
- Spearheaded a project-based learning approach, overseeing the completion of an average of 7 projects per student, ranging from beginner to advanced levels in Python, Pygame, JavaScript, and Scratch.
- Achieved a 90% retention rate for students enrolled in Python, leading to a 55% increase in class participation and project submissions, reflecting heightened student interest and commitment to learning.

Web Developer intern — August 2022 – February 2023
University at Buffalo — *Buffalo, NY*
- Collaborated with the Student Engagement team to develop a dynamic, gamified web application for the annual Next Level conference, automating processes and cutting down participant wait times by 40%, thereby enhancing the experience for 150+ attendees.
- Focused on front-end development with Tailwind CSS, improving the web application's user interface and experience, leading to a 30% increase in user engagement compared to previous events.
- Designed and implemented a responsive, ADA-compliant web application, ensuring accessibility for all users across a variety of devices and browsers.
- Utilized Docker for deployment, enhancing the application's scalability and reliability, which supported seamless access for high user traffic without downtime.

  🏆 Awarded the *Innovative Student Leadership Award* for exceptional contributions to *Next Level Conference* by the University at Buffalo.

PROJECTS

GreatReads - A Goodreads Clone | *Full-Stack: React, TailwindCSS, Supabase* — live site | github
- Implemented key features like book browsing, detailed book information, and reading progress tracking.
- Integrated two major APIs (Google Books, New York Times), providing users with access to over a million books and real-time updates on trending books and best-sellers.
- Enabled secure user authentication, profile customization, and provided options for guest/demo user access.

Image Stitching Project | *Python, PyTorch, Kornia* — | github
- Developed an advanced image stitching algorithm for feature extraction, matching, and homography computation to merge images seamlessly.
- Generated a seamless mosaic from images with common backgrounds, eliminating moving foreground objects.
- Adhered to constraints of not using traditional libraries like OpenCV, instead leveraging Kornia for CV operations.

Foodle: A Food-Inspired Wordle Game | *Flutter, Dart* — live site | github
- A Wordle game with a twist—every word in the game is a five-letter food item.
- Designed an intuitive, minimalistic user interface using Flutter and Dart to provide a seamless gaming experience
- Utilized Flutter for cross-platform deployment, ensuring a consistent user experience on multiple devices
- Employed Dart's asynchronous programming features to achieve smooth gameplay without lags or stutters

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, Typescript, C/C++
Frameworks & Libraries: MongoDB, React, Next.js, TailwindCSS, Redux, Express.js, Criterion, OpenCV, Torchvision
Databases: PostgreSQL, MySQL, MongoDB
Developer Tools: Git, Zenhub, Conda, Heroku, Node.js