ANNUSHA PERVEZ

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EDUCATION

UNIVERSITY AT BUFFALO   **Buffalo, NY**
Bachelor of Science Computer Science & Bachelor of Arts Psychology   *Graduated May 2024*
- Awards & Honors: Dean's List
- Relevant Coursework: Data Structures, Algorithms, System Programming, Computer Organization, Distributed Systems, Machine Learning, Theory of Computation, Programming Languages, Discrete Structures, Web Development, Game Development, Software Quality Practices

TECHNICAL SKILLS

- **Computer Languages:** Python, C, Scala, PHP, Go, JavaScript, TypeScript, CSS, HTML, OCaml, Mips Assembly
- **Frameworks:** Flask (Python), TensorFlow (Python), React, Next.js, Node.js, Unreal Engine 5
- **Databases:** MongoDB, SQL, Supabase
- **Tools:** Docker, Github, Git

WORK EXPERIENCE

Capital Movement LLC   **New York, NY**
Software Engineer & Digital Marketing Specialist   *January 2024 – June 2024*
- Implemented automation services, enhancing operational efficiency and reducing manual workload
- Managed social media platforms, driving engagement and brand awareness through curated content and strategic campaigns
- Designed and produced high-quality graphics for marketing materials, social media, and web content using tools like Canva

PROJECT EXPERIENCE

The Climb - Fitness Web Application   **Buffalo, NY**
Software Developer   *February 2024 – May 2024*
- Developed a web application, "The Climb," using HTML, CSS, JavaScript, and PHP and hosted on a server
- Integrated user profile management features, including updating profile information and uploading profile photos, using PHP and SQL for data storaget and retrieval
- Implemented user authentication and security measures, including encryption of user tokens and prevention of SQL injection attacks, to ensure user data privacy and security
- Collaborated with a project manager and used Trello board for project organization, ensuring timely completion of milestones and effective communication within the team

Kadimilla Distributed Hash Table   **Buffalo, NY**
Software Developer   *February 2024 – May 2024*
- Developed a routing table implementation in Go for a peer-to-peer information system based on the XOR metric, with lookup time logarithmic in the size of the key space, following the Kademlia paper's specifications
- Implemented a Routing Table struct with methods for initializing a new routing table, inserting nodes, removing nodes, looking up nodes, retrieving nodes from a bucket, and finding the closest k nodes to a given key
- Implemented concurrency safety using a mutex to allow safe concurrent access to the routing table and Managed concurrency for multiple concurrent operations, allowing the node to respond to incoming messages while performing recursive operations

Quizly - Quiz Web Application   **Buffalo, New York**
Software Developer   *October 2023 – December 2023*
- Designed and built the application's frontend with HTML, CSS, and JavaScript and deployed the application on a publicly available server with a domain name and HTTPS, ensuring secure communication
- Utilized MongoDB as the database to store user information, quiz questions, and grades ensuring efficient and scalable data storage. Implemented WebSocket interactions to enable users to join existing lobbies and interact with the quiz in real-time
- Utilized cookies to track user visits to specific paths, enhancing user experience and interaction and incorporated email verification for user registration, enhancing security and preventing unauthorized access
- Collaborated with a team to plan, develop, and deploy the application, using proper git/GitHub practices for version control and collaboration

LEADERSHIP & ACTIVITIES

Safety Net Project   **New York, NY**
Volunteer   *March 2023 – Present*
- Successfully raised $8,000 to date through fundraising efforts and community outreach for individuals from impoverished communities, with a particular focus on youth