

# Annusha Pervez

Software Engineer

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## EDUCATION

**University at Buffalo , Buffalo, United States** - *Bachelor of Science, Computer Science & Bachelor of Arts, Psychology*  
**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.

## SKILLS

**Programming Languages** : Python, C, Scala, PHP, Golang (Go), JavaScript, TypeScript, OCaml, Mips Assembly, Shell, CSS, HTML, SQL  
**Frameworks** : Flask, TensorFlow, React, Next.js, Node.js, Unreal Engine 5  
**Databases** : MongoDB, Supabase, Firebase, mSQL  
**Tools** : Docker, Linux, Github, Git, Visual Studio Code, Eclipse, IntelliJ IDEA

## WORK EXPERIENCE

**Software Developer Intern, Total Wireless (Faim Wireless LLC), New Jersey, United States** **Jan 2025 - Present**

- Independently designed, developed, and deployed web applications to support business needs
- Debugged and optimized code to ensure performance, scalability, and efficiency
- Researched and integrated third-party APIs and tools to enhance application functionality
- Developed Geo Search to assist leadership in identifying optimal store purchase locations based on store distribution
- Presented project updates and technical insights to leadership, effectively communicating development progress

## PROJECT EXPERIENCE

**GeoSearch, Total Wireless (Faim Wireless LLC), [Link](#)** **Feb 2025**

- Developed a dynamic store locator web application that visualizes store locations on an interactive map, enhancing user experience and accessibility
- Implemented real-time filtering functionality allowing users to search by store type (e.g., Total by Wireless, Cricket) and address, improving the efficiency of the store location process
- Utilized data parsing techniques (PapaParse) to dynamically process and display store information, ensuring accurate and up-to-date geolocation data
- Enhanced map interactivity through Marker Clustering with Leaflet, improving data visualization and optimizing performance by grouping nearby store markers at higher zoom levels

**The Climb - Fitness Web Application, [Link](#)** **Feb 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 storage 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, [Link](#)** **Feb 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

## LEADERSHIP & ACTIVITIES

**Co-founder, The Safety Net Project, New York, NY** **Mar 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.