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.

WORK EXPERIENCE

Junior Business Analyst, Total by Verizon, Jersey City, United States   **Jan 2025 - Present**
- Analyzed sales data and track key performance indicators (KPIs) such as customer acquisition, retention rates, and revenue to identify trends and areas for improvement
- Created detailed reports and dashboards using Excel and SQL to provide actionable insights to stakeholders and support decision-making
- Collaborated with cross-functional teams (finance, marketing, and store management) to align business objectives and drive operational efficiency
- Evaluated customer feedback and market trends to refine sales strategies, improve customer experience, and optimize pricing and promotions.

PROJECT EXPERIENCE

GeoSearch, Total by Verizon, 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

SKILLS

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

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.