Victor Cavero

vcavero2@gmail.com | 571-397-4918 | victorcavero.com | github.com/vcavero941

EDUCATION

George Mason University   *Fairfax, VA*
Bachelor of Science   *Expected Dec 2024*
Major in Computer Science
Relevant Coursework: Data Structures, Computer Systems and Programming, Software Engineering

ACTIVITIES

Arcola Volunteer Fire Department   *Arcola, VA*
Emergency Medical Technician (EMT)   *Aug 2020 – Dec 2021*
- Assisted with the provision of emergency care (on-scene and ambulatory) as part of a 3-member crew through weekly 12-hour shifts
- Provided Basic Life Support to over 40 patients, and supported Advanced Life Support personnel (paramedics and advanced EMTs) with 3 mass casualty incidents involving 4-6 patients each

Loudoun Soccer   *Ashburn, VA*
Head Coach   *Mar 2021 - Jun 2021*
- Managed a recreational soccer team of 14 5th-grade boys through weekly 3 hr practices
- Educated players on areas of needed improvement, resulting in 20% greater ball possession and 3x the number of shots-on-target per game by the end of the season
- Incorporated proven strategies and tactics towards post-season matches, allowing the team to finish 3rd place in the annual Spring Cup

American Red Cross   *Fairfax, VA*
Biomedical Services Volunteer   *Dec 2020 - Feb 2021*
- Greeted and checked in 30-40 blood donors per shift in a professional and hospitable manner
- Educated donors about different blood procedures (Power-Red, Platelets, and Whole Blood) and explained the benefits of using the RapidPass prior to appointments, which could reduce check-in time by up to 50%
- Monitored donors for signs of adverse reactions during blood procedures, and provided continuous care and attention to donor needs

PROJECTS

Weather Forecast Web App   *Apr 2023*
- Developed a weather forecast using JavaScript, HTML/CSS, and OpenWeatherMap API
- Utilized real-time weather data to produce a 5-hour and 5-day forecast for over 200,000 cities worldwide

To-do List Web App   *Apr 2023*
- Created a simple and user-friendly to-do list using JavaScript and HTML/CSS
- Incorporated 3 essential functions: adding/deleting items, editing item names, and marking off existing items, enabling users to more efficiently manage tasks

On-Program (OP) CPU Scheduler   *Feb 2023*
- Designed 10 functions as part of a CPU scheduler for a virtual machine running on Linux, using C
- Applied a queue system that manages processes by priority, increasing CPU performance by 20%

Trie Data Structure   *Oct 2022*
- Implemented a special tree in Java used for storing strings, supporting up to 26 nodes (one per letter)
- Utilized a HashMap to achieve 30% quicker lookup times compared to similar data structures

SKILLS

Languages: Java, C, Python, JavaScript, HTML/CSS
Tools: Excel, Git, GitHub, Linux, Cloud Computing (AWS Certified Cloud Practitioner)
Software Development: CI/CD, Scrum, Kanban, Jira