Ayush Srivastava

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EDUCATION

University at Buffalo, The State University of New York — Buffalo, NY
Bachelor of Science in Computer Science — *Fall'23 – Fall'26*
- Relevant Coursework: Data Structures & Algorithms, System Design, Calculus, Linear Algebra
- Honors & Awards: 3.7 CGPA, Honors College, Deans' List, SEAS Maker Exploration Digital Badge

EXPERIENCE

Undergraduate Research Assistant — July 2024 – Dec. 2024
Embedded Sensing and Computing Group, University at Buffalo — *Buffalo, NY*
- Collaborated with a team of 3 students under the supervision of Dr. Xu to develop VocalLens, an application that detects specific language impairments in children.
- Led the web development implementing key features that improved user experience, resulting in a 30% increase in positive feedback from faculty.
- Developed AuspexMedix and 2 other websites for the UB ESC Research Team.

Tech Support Student Assistant — Nov. 2024 – Present
CAS Educational Technology, University at Buffalo — *Buffalo, NY*
- Deployed and imaged 50+ computers, installed operating systems, and configured software for faculty and staff.
- Diagnosed and repaired hardware issues, including replacing hard drives, troubleshooting boot failures, and optimizing system performance resulting in 100% customer satisfaction.
- Automated IT inventory management using Power Automate, reducing tracking time by 80%.

DREAM Hub Apprentice — Jan. 2025 – April 2025
School of Engineering and Applied Sciences, University at Buffalo — *Buffalo, NY*
- Developed hands-on projects using Arduino, Fusion 360, and soldering, improving hardware prototyping efficiency by 40%.
- Hosted and co-hosted workshops on MERN stack and Arduino programming, teaching 30+ students C++ fundamentals and web development.
- Earned the SEAS Maker Exploration Digital Badge by completing a final project, 4 technical modules, and a portfolio, demonstrating hardware-software integration skills.

PROJECTS

Wall-E Robot | *ESP32, C++, React.js, WiFi, Arduino, 3D Printing* — Dec 2024 – Jan. 2025
- Engineered a WiFi and Bluetooth-controlled robot using ESP32 and React web interface for real-time motion control, achieving 98% command execution accuracy.
- Designed and 3D-printed custom parts, improving structural durability and motor efficiency by 30%.
- Implemented Bluetooth connection, reducing setup time by 80% and enhancing user accessibility.

Pehcharm | *MongoDB, Express.js, React.js, Node.js, Github API* — July 2024 – Aug. 2024
- Deployed a secure CRUD web app for generating portfolio websites, with Real Experience Score of 97.
- Utilized Node and REST APIs to interact with records in MongoDB and GitHub, enabling visualization with React showing over 10 insights of a user's data including blogs, experiences, GitHub repositories and more.
- Created interactive and responsive designs which led to a 50% increase in user engagement and is now utilized by over 100 users.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS
Web Development: React, Node.js, MongoDB, Express.js
Developer Tools: Git, Visual Studio, Arduino IDE, IntelliJ, Emacs
Skills: Debugging, Microsoft 365, Problem Solving, Cross-Functional Collaboration, Unit Testing
Interests: Software Development, Robotics, Micro-controllers, Research