Agraw Mindaye

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Computer Science graduate with a strong foundation in embedded systems and full-stack development. Experienced in building real-time firmware and responsive, user-friendly applications. Passionate about efficient system design and bridging the gap between hardware and software to develop impactful user experiences.

Skills

Programming Languages: C, C++, Python, JavaScript, TypeScript, SQL
Web Development: React, Next.js, Node.js, Express, Chart.js, HTML, CSS
Embedded Systems: ESP32, Arduino, I2C, SPI, UART, RTOS
Tools and Platforms: Git, Linux, Docker, GDB, PlatformIO, VS Code

Experience

Software Developer Sep 2024 – Dec 2024
NAGY Ventures *Newark, NJ*

- Developed an online portal for "Awesome Social", a platform providing branding, marketing, and sales solutions
- Integrated real-time social media APIs to help companies visualize engagement and performance metrics
- Collaborated with cross-functional teams to create an intuitive and user-friendly interface using React and Chart.js
- Optimized platform responsiveness to ensure seamless usability across devices and for high traffic business users

STEM Student Intern May 2021 – Aug 2022
Bergen Community College *Paramus, NJ*

- Collaborated with faculty mentors and fellow interns on a STEM research initiative
- Facilitated weekly sync meetings to delegate tasks to synchronize project milestones and workflow
- Presented research findings to a diverse audience at a college-wide symposium
- Mentored incoming students by providing academic resources and encouraging participation in professional events

Projects

Portfolio Website (Live) (GitHub) Jul 2025 – Present

- Developing a personal portfolio using Next.js and Tailwind CSS to showcase full-stack and embedded projects
- Integrating CI/CD with GitHub Actions and Vercel for seamless deployment and automated build/test workflows
- Implementing modular and scalable architecture with reusable components and responsive design

Smart Environment Dashboard (GitHub) May 2025 – June 2025

- Engineered an ESP32-based system in C++ to log DHT11 sensor data to an SD card
- Integrated an I2C LCD with physical buttons to enable manual scrolling through sensor logs
- Optimized data logging logic to ensure display consistency during sensor polling and user interaction

LED Control Panel (GitHub) Feb 2025 – Mar 2025

- Designed a microcontroller-based interface for an LED control panel using digital I/O
- Wrote firmware in C++ to handle real-time input and output changes
- Integrated debouncing techniques to ensure reliable input detection

Bergen Routes (GitHub) May 2022 – Aug 2022

- Developed Bergen Routes, a web application designed to assist users in navigating large buildings
- Created a user-centric design with JavaScript and CSS, applying UI/UX design principles to optimize interaction
- Conducted node mapping to align images centrally for 360-degree image photography

Education

New Jersey Institute of Technology Sep 2022 – Dec 2024
Bachelor of Science in Computer Science *Newark, NJ*

Bergen Community College Sep 2020 – May 2022
Associate of Science in Computer Science *Paramus, NJ*

Relevant Coursework: Computer Systems and Architecture • Data Structures and Algorithms • Operating Systems and Design