Agraw Mindaye

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EDUCATION

New Jersey Institute of Technology — Newark, NJ
Bachelor of Science in Computer Science — Dec 2024

SKILLS

Programming: C, C++, Python, JavaScript, SQL
Embedded Systems: ESP32, STM32, Arduino, I2C, SPI, UART, RTOS
Controls & Automation: Sensors, Actuators, Stepper/Servo Motors, Data Logging
Tools & Platforms: Git, Linux, Docker, GDB, PlatformIO, Logic Analyzer
Certifications & Training: Android Development (CodePath), Embedded Systems (PyjamaBrah)

EXPERIENCE

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

- Developed an online portal that centralized branding, marketing, and sales solutions, allowing clients to manage campaigns and track engagement metrics in real time
- Integrated live social media APIs to give businesses instant visibility into performance trends, enabling data-driven marketing decisions
- Partnered with cross-functional teams to design a user-friendly interface in React and Chart.js, improving client adoption
- Optimized platform responsiveness across devices to support high-traffic usage, ensuring reliability and scalability

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

- **Web Development**: Designed and developed a wayfinding application; built UI with JavaScript/CSS and mapped building images in AutoCAD, resulting in an interactive tool that improved navigation for users in large facilities
- **Cybersecurity**: Led a research project simulating real-world cyber threats; implemented a keylogger, Trojan Horse, and boot sector virus, conducted phishing simulations and demonstrating vulnerabilities
- Collaborated with faculty mentors and fellow interns on research initiatives in web development and cybersecurity
- Facilitated weekly sync meetings with interns and faculty to coordinate tasks and track project milestones
- Presented research findings at a college symposium to an audience of students, faculty, and industry professionals

PROJECTS

Smart Environment Dashboard (GitHub)

- 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

Bergen Routes (GitHub)

- 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

Embedded Systems (Micro Projects)

- **LED Control Panel**: a microcontroller-based interface for an LED control panel using digital I/O (GitHub)
- **Servo Motor Control**: control the angle of a servo motor with real-time potentiometer input (GitHub)

ADDITIONAL EXPERIENCE & AFFILIATIONS

Alumni Community Member | CodePath | Remote — May 2025 – Present
Delivery Driver | DoorDash | New Jersey — April 2025 – Present