Nasier G Fowlkes
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EDUCATION

Temple University, College of Science and Technology - Philadelphia, PA **Bachelor of Science, Computer Science**

RELEVANT SKILLS

- Languages & Development: Java, JavaScript, Python, C, C++, HTML, CSS, TypeScript, React, Next.js, JSON, ROS, Agile, XML
- Database & Tools: LATEX, Markdown, Git, GitLab, SQL, SQLite, MYSQL, Linux, Firebase, Jira, Visual Studio, AWS

RELEVANT EXPERIENCE

IT Support **June 2022 - Current**
Temple University IT support
- Providing assistance to professors in troubleshooting software and hardware issues, ensuring seamless educational experiences.
- Efficiently addressing and resolving escalated technical challenges with a strong emphasis on timely solutions.
- Demonstrating teamworking ability by effectively coordinating tasks and collaborating with colleagues for optimal support-delivery.

NASA Lunabotics Competition | Temple Robotics **August 2023 – December 2024**
Website Development Lead, Programming sub-team leader
- Represented Temple Robotics at NASA's 2024 Lunabotics competition, taking lead roles in web development and team programming initiatives.
- Collaborated in development of an autonomous navigation and digging system with ROS in Python, achieving competition-readiness and meeting essential performance requirements.
- Took charge of the maintenance and enhancement of the Temple Robotics website, ensuring an engaging online presence at TempleRobotics.org.
- Led regular sub-team meetings to communicate upcoming changes, facilitate discussions on improvements, and foster a collaborative, effective team environment.

Racecar Telemetry System | Full-Stack web application **August 2024 - December 2024**
Capstone Project
- Led the design and development of a full-stack racecar telemetry system for Temple Formula Racing, enabling real-time monitoring of racecar vitals.
- Researched, selected, and implemented the tech stack, integrating Firebase Realtime Database & Firestore for live telemetry and data storage.
- Engineered a CAN data pipeline, translating messages from an Adafruit board via ESP32 before streaming to Firebase.
- Built a Next.js web application providing a real-time telemetry dashboard for the formula racing team.
- Successfully deployed and tested on an actual racecar, presenting live functionality at a Capstone Showcase.

Owlhacks 2024 – Smart Cities track | Winner | [Devpost Project Link] **October 5th – 6th, 2024**
- Led the development of "InclusiFind", a web application designed to help users find inclusive and accommodative spaces in Philadelphia, supporting individuals with diverse needs in finding accommodating environments.
- Utilized web scraping and Google Maps API to display accessible study locations accommodating both physical and mental disabilities.

Temple Trading Hub | Web Application Developer **January 2024 - May 2024**
Pre-capstone University project
- Developed an online platform for Temple University students to safely trade goods and services within the campus community, addressing safety concerns in surrounding areas.
- Designed and built a full-stack Next.js + Firebase web app, ensuring a responsive UX with Agile methodology.
- Implemented user authentication and serverless backend capabilities, enhancing security and scalability.

STEM Youth Outreach **May 2023 – Current**
- Created and led a multi-stage programming and robotics workshop at the middle school I attended, Drexel Hill Middle School.
- Volunteered at youth robotics competitions, including FLL and FRC, taking on roles such as judging and refereeing.
- Mentored a high school robotics team in Pennsylvania, helping to develop their robot for competing in FRC.