SHUBH SHAHRA

419-418-1930 | sshahra@rockets.utoledo.edu | LinkedIn | shubhshahra.site

Education

BSc in Computer Science and Engineering, Junior, 3rd Year
University of Toledo, Ohio; Graduation Date: December 2026 **[GPA: 3.816]**

Relevant Courses

- Object Oriented Programing
- Non-Linear Data Structure
- Computer Architecture
- Linear Data Structure
- Electric circuits
- Electronics

Skills

Programming:	Java, C++, HTML, CSS, JavaScript, Next.js, React
Business skills:	Organization, Time management, Communication, Critical thinking, Leadership
Reporting:	Microsoft Office (Word, Excel and PowerPoint)
Developer Tools:	Microsoft Visual Studio, Eclipse IDE, Git, MIT App Inventor

Fellowship

Software Engineering Fellow, Headstarter, Remote;   *July 2024 – Aug 2024*

- Built 5+ AI apps and APIs using Next.JS, OpenAI, Pinecone, Stripe API with 98% accuracy as seen by 1000 users
- Developed projects from design to deployment, leading 4+ engineering fellows using MVC design patterns
- Coached by Amazon, Bloomberg, and Capital One engineers on Agile, CI/CD, Git, and microservice patterns

Professional Experiences

Classroom Support Student Tech, University of Toledo, Toledo;   *September 2023 – Present*

- Provide technical support to faculty by resolving technology-related issues in classrooms, enhancing the learning experience
- Conduct thorough troubleshooting and resolve over 50 technology issues, ensuring minimal disruption to classroom activities
- Perform campus-wide inspections to ensure functionality of technical accessories, resulting in a decrease in reported issues

Web Development Intern, Prodigy Infotech, India;   *July 2024*

- Acquired skills in JavaScript, CSS, and HTML through practical projects, improving personal technical proficiency
- Successfully completed 5 web development projects within deadlines, receiving positive feedback from clients, which increased customer satisfaction

Engineering Peer Mentor, University of Toledo, Toledo;   *September 2023 – May 2024*

- Facilitated learning for 25 students by providing support in OOP concepts, Java, MATLAB, electric circuits, and logical queries, leading to an average 15% improvement in student grades
- Evaluated and graded student lab submissions, ensuring accuracy and timely feedback, which improved overall lab performance

Projects and Workshops

- [Link] **Tech Market |** *Next.js, Firebase, React, Clerk, OpenAI, Llama AI, JavaScript*
  Built a tech professional marketplace with features like **AI profile analysis**, **networking**, and **AI chat**. Utilized **Clerk** for authentication, and **OpenAI/Llama AI** for personalized career advice and job posting automation.

- [Link] **Inventory Manager App |** *Next.js, Firebase*
  Built an inventory manager for adding and deleting items using **Next.js** for the frontend and **Firebase** for the backend. Integrated real-time updates for seamless inventory management.

- **Demonstration of Li-Fi Technology |** *Li-Fi, Circuit Design*
  Demonstrated **Li-Fi** by transmitting sound through **LEDs** and receiving it via **solar panels**. Designed circuits for signal modulation, showcasing **Li-Fi** as a potential **Wi-Fi** alternative.

- **Home Automation using Arduino |** *Arduino, Python, Circuit Design*
  Developed a **smart lighting system** using **Arduino**, sound sensors, and relay modules. Programmed in **Python** for sound-based activation and automated control of light bulbs.

- [Link] **Sudoku Solver |** *Java*
  Led a team to develop a **Java-based Sudoku Solver** that identified and corrected puzzle errors, delivering accurate solutions through automated diagnostics.

- [Link] **Draw and Shake |** *MIT App Inventor*
  Created a mobile drawing app with customizable canvas and "shake-to-erase" functionality using **MIT App Inventor**. Enhanced user interaction with dynamic design features.

Activities

- Co-founded and established the Rockets Cricket Club at University of Toledo, to engage in and promote cricket
- Active member of coding club at University of Toledo, worked on different ideas based on java and C++ language