# SHUBH SHAHRA

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## Education

**BSc in Computer Science and Engineering, Junior, 3rd Year**

University of Toledo, Ohio; Graduation Date: December 2026 **[GPA: 3.816]**

## Certifications

C++ Essential Training, LinkedIn Learning,                                                                                 *July 2024*

## Relevant Courses

| | |
|---|---|
| Object Oriented Programming: | Covered Java basics, GUI development |
| Linear Data Structures: | Explored stacks, queues, recursion, sorting |
| Computer Architecture: | CPU architecture, memory hierarchy, pipelining |
| Electric Circuits I: | Basic circuit elements, Ohm's law, Kirchhoff's laws, AC/DC analysis |

## Skills

| | |
|---|---|
| Programming: | Java, C++, HTML, CSS, JavaScript, Python |
| Business skills: | Organization, Time management, Communication, Critical thinking, Leadership |
| Reporting: | Microsoft Office (Word, Excel and PowerPoint) |
| Development Environments: | Microsoft Visual Studio, Eclipse, Git, MIT App Inventor |

## Fellowship

**Software Engineering Fellow,** Headstarter                                                   *July 2024-Aug 2024|Remote*

- Built 5+ AI apps and APIs using NextJS, OpenAI, Pinecone, StripeAPI 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

**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

**Classroom Support Student Tech (Part-Time)**, University of Toledo, Toledo;                   *September 2023 – Present*

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

**Peer Mentor (Engineering) (Part-Time),** University of Toledo, Toledo;                   *September 2023 - Present*

- 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

**Demonstration of Li-Fi Technology**

- Demonstrated Li-Fi by transmitting sound through LEDs and receiving it via solar panels
- Designed and optimized circuits for light signal modulation and audio signal recovery
- Showcased Li-Fi's potential as a Wi-Fi alternative and gained hands-on experience with electronics and circuit design

**Home Automation using Arduino**

- Developed a smart lighting system with Arduino, allowing the bulb to be controlled by sound
- Integrated sound sensor, relay module, and LED bulb with Arduino for a fully functional system
- Programmed Arduino using python for clap detection and relay activation

**Sudoku Solver using JAVA**

- Led a team of four in the development of a Java-based Sudoku Solver project
- Utilized GitHub and version control repositories for efficient collaboration and project management
- Engineered automated code to diagnose errors in unsolved or incorrectly solved Sudoku puzzles
- Implemented solutions to correct identified issues, providing accurate solutions to problematic puzzles

**Draw and Shake**

- Developed an android mobile drawing application for android operating system with a customizable canvas, featuring dynamic pen settings, background image support, and shake-to-erase functionality.
- Leveraged MIT App Inventor to create the app's graphical user interface and functionality, utilizing a combination of visual blocks and programming logic to achieve the desired 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