# NIHARIKA SHIVARATHRI

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## EDUCATION

**University of Wisconsin, Madison** | **Expected Graduation Date: December 2025** |

Bachelor of Science, Computer Science | Current GPA:3.42/4.0 |

**Relevant Course Work**: Object-Oriented Programming | Data Structures | Programming in Java | Calculus | Discrete Mathematics | Linear Algebra | Artificial Intelligence | Computer Graphics | Algorithms | Machine Organization and Programming | Database Management Systems | Operating Systems

**Awards**: Dean's Honor List

## SKILLS

- **Programming Languages:** C/C++ | Java | Python | JavaScript | Typescript | HTML | SQL
- **Frameworks/Tools**: React | Angular | Vue.js | Bootstrap | Tailwind CSS | Flask| Django | Spring Boot | MySQL | MongoDB | PyTorch | TensorFlow | Git (GitHub | GitLab | Bitbucket) | CI/CD (GitHub Actions) | Linux/Unix Commands | LeetCode | Algorithm Optimization

## WORK EXPERIENCE

**Think Eye | Software Development Intern | Hyderabad, India** | **May 2024-August 2024** |

- Developed a **patient management system** using **React and Flask**, streamlining appointment scheduling and record management, improving operational efficiency by **25%**.
- Enhanced **data security** and optimized **backend workflows**, ensuring seamless patient data retrieval and reducing response time by **40%**.

**Jubilant Capital | Web Development Intern | Coimbatore, India** | **May 2023-September 2023** |

- Built a **client management system** with **Flask, SQL, and role-based access controls**, improving operational efficiency by **20%**.
- Strengthened data encryption and authentication, securing 10,000+ financial records and ensuring regulatory compliance.

## PROJECTS

**Client Database Management System** | September 2024 |
*(React | Axios | Tailwind CSS | Flask | SQL | PyMongo)*

- Developed a **React-based frontend** with a seamless UI, improving client data accessibility for **500+ users**.
- Built **Flask-based APIs** for fast and secure data retrieval, reducing processing time by **40%**.
- Integrated **role-based access control and bulk upload**, reducing manual data entry time by **60%**.

**Graphical Earthquake Monitor & Intelligent Pathfinder** | April 2024 |
*(Java | JavaFX | Dijkstra's Algorithm | GIS Mapping | Data Visualization | Algorithm Optimization)*

- Built a **real-time earthquake visualization tool** with GIS-based interactive mapping.
- Implemented **Dijkstra's Algorithm** for optimal evacuation routes, reducing route computation time by **50%**.
- Optimized **spatial data processing**, making the system scalable for disaster management applications.

**AI-Powered WhatsApp Chatbot** | January 2024 |
*(ChatGPT Sandbox | Twilio API | MongoDB | Python | SQL | Flask | PyMongo, | AWS)*

- Developed an **AI-driven chatbot** handling **200+ daily interactions** with **90% response accuracy**.
- Integrated **MongoDB and Flask APIs**, reducing query response time by **40%**.
- Deployed on **AWS**, ensuring **scalability and high availability**.

**Web Medical Management System** | September 2023 |
*(MySQL | Java | JavaScript)*

- Built a **hospital database system** for efficient **patient appointment scheduling**.
- Implemented a **secure medical history storage system**, improving hospital workflow automation.

**Weather Application** | June 2023 |
*(Python | OpenWeatherMap API)*

- Developed a **real-time weather app** using **Python and OpenWeatherMap API**, improving forecast accuracy.
- Optimized data retrieval and UI responsiveness, ensuring a smooth user experience.