AISHWARYA AINALA

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https://github.com/ainalaaishwarya3-blip

EDUCATION

Illinois Institute of Technology | Chicago, IL   Aug'23 – May'25

Master of Science, Computer Science   **GPA**: 3.3/4.0

Coursework: *Advanced Database, Software Project Management, Information Retrieval, Data Preparation and Analysis, Computer Networks, Big Data Technologies, Software Engineering, Science of Programming.*

Vardhaman College of Engineering | Telangana, HYD, India   Aug'19 – Jun'23

B.Tech, Computer Science and Engineering   **GPA**: 3.67/4.0

Coursework: *Object-oriented programming, Data Structures, Algorithms, Database Management Systems, Operating Systems, Web Development , Cloud Computing and Virtualization.*

SKILLS

- Languages   Java, Python, C++, JavaScript, HTML, CSS, TypeScript
- Frameworks/Tools   Git, Jira, Docker, Linux, Kubernetes, CI/CD, Unix, Jenkins, AWS, SOAP, REST
- Database   SQL, NoSQL, MongoDB
- Soft Skills   Communication, Collaboration, Leadership, Problem-Solving, Strategic, Innovation

EXPERIENCE

Software Developer I, TechCorp, USA   Jan– Aug'25
- Implemented CI/CD pipelines and automated deployments to streamline release cycles and reduce downtime.
- Integrated RESTful APIs to enhance application performance and ensure seamless system communication.

IT Analyst, Smart IMS, India   Jan– Dec'22
- Designed scalable backend services and optimized database queries using PL/SQL and Oracle APEX to improve system performance.
- Collaborated with cross-functional stakeholders to gather, analyze, and refine business requirements, translating them into secure and enterprise-grade technical solutions aligned with organizational objectives.

PROJECTS

Interactive Computer System Using Hand Gestures   Dec'22– Apr'23
- Built a deep learning model with **Python**, **C++**, TensorFlow, Keras, and **OpenCV** to classify and recognize real-time hand gestures with high accuracy.
- Developed a gesture-controlled interface replicating mouse/keyboard functions, applying NumPy, Pandas, and PyTorch for data preprocessing and experimentation

Online Cryptographic Website   Aug– Dec'22
- Created a secure web platform with React.js, JavaScript, HTML5, CSS3, and Bootstrap to encrypt/decrypt messages using modern cryptographic algorithms.
- Implemented **REST APIs** with Node.js and Express.js, deploying via GitHub Actions **(CI/CD)** to ensure accuracy, scalability, and reliable performance

Neighborhood Resource Sharing App   Jan– Apr'22
- Developed a responsive single-page web app using **React.js**, **JavaScript**, **HTML5**, and **CSS3**, enabling neighbors to share and borrow community resources.
- Designed dynamic UI components with React state management and deployed on Netlify with GitHub version control for continuous accessibility

Smart Walking Stick   Jul'21– Dec'21
- Developed assistive device for the visually impaired, equipped with sensors for safe and independent navigation using ultrasonic and infrared sensors coupled with GPS technology.
- Walking stick provides audio feedback and vibrations to alert users of obstacles and changes in elevation and provide directional guidance.

CERTIFICATION

- AWS Cloud Technical Essentials
- Full-Stack Web Development