AISHWARYA AINALA

Chicago, IL | 312-566-3353 | aishwaryaainala09@gmail.com | www.linkedin.com/in/aishwaryaainala-123abc |

SUMMARY

Computer Science graduate with hands-on experience in software development, cloud infrastructure, and system automation. Skilled in Java, Python, and data-driven solutions with exposure to DevOps, networking, and information security, supported by strong academic and project foundations.

EDUCATION

Illinois Institute of Technology, Chicago, IL   MAY 2025
Master of Science, Computer Science, GPA 3.33

Vardhaman College of Engineering, Hyderabad, INDIA   MAY 2023
Bachelor of Technology, Computer Science and Engineering, GPA 3.67
- Notable coursework: Object-Oriented Programming, Database Management Systems.

SKILLS

- **Programming:** Java, Python, C++, SQL, HTML5, CSS3, JavaScript (ES6+), Bootstrap, Reactjs, AngularJs.
- **Networking & Security:** TCP/IP, DNS, Firewalls, VPN, Network security fundamentals.
- **DevOps & Automation:** GitHub Actions (CI/CD), Bash, PowerShell, Python scripting.
- **Cloud Computing**: AWS (EC2, S3, IAM, VPC), Linux/Windows Administration, Docker, Virtualization.
- **Big Data Technologies**: HDFS, YARN, MapReduce and Apache Spark.
- **Software Project Management**: MS Project for comprehensive project planning, execution, Agile and Waterfall methodologies.
- **AI/ML:** Machine learning and Deep learning with expertise in predictive modeling, image recognition, and natural language processing.

WORK EXPERIENCE

IT Analyst   JANUARY 2023 – JUNE 2023
Smart IMS, Hyd, India
- Developed and optimized web-based applications using Java, React.js, HTML5, CSS3, JavaScript (ES6+), and SQL, improving performance and user experience across multiple client platforms.
- Automated workflows by creating Python scripts and REST API integrations, reducing manual intervention and increasing operational efficiency.
- Collaborated with the infrastructure team on AWS cloud deployments and security best practices, gaining exposure to hosting, networking, and system monitoring.

ENTREPRENEURSHIP AND INNOVATION INTERN   MAY 2023 – JULY 2023
Illinois Tech, Chicago, IL, Virtual
- Built and tested web prototypes using HTML, CSS, and JavaScript, improving user engagement for innovation-driven projects.
- Applied Python scripts to automate data collection and analysis, enhancing project insights for global-scale applications.
- Collaborated with cross-functional teams using Agile tools to manage tasks, sprints, and deliverables.

PROJECT MANAGEMENT INTERN   APRIL 2023 – JULY 2023
Saint Louis, MO, Virtual
- Assisted in structuring project plans, task breakdowns, and execution timelines to align with organizational objectives.
- Streamlined workflows by applying Agile and Scrum methodologies, improving project milestone completion.
- Collaborated with cross-functional teams using the Asana tool to ensure efficient task tracking and communication.

ARTIFICIAL INTELLIGENCE ENGINEER INTERN   OCTOBER 2022 – NOVEMBER 2022

1Stop, Virtual
- Conducted research and development on AI-based solutions for automotive technologies, improving automation and predictive accuracy.
- Applied machine learning algorithms (classification, regression, clustering) to optimize model performance and efficiency.
- Collaborated with a team of 3 engineers to implement and test AI prototypes, ensuring scalability and reliability of solutions.

PYTHON FOR MACHINE LEARNING ENGINEER INTERN   SEPTEMBER 2021 – OCTOBER 2021

Great Learning, Virtual
- Designed and implemented machine learning models using Python libraries such as Pandas, NumPy, and Scikit-learn for predictive analytics.
- Developed solutions for recommendation systems, sentiment analysis, and anomaly detection, improving accuracy and efficiency of predictions.
- Conducted data preprocessing, feature engineering, and model evaluation, ensuring robust performance across diverse datasets.

PROJECT EXPERIENCE

Interactive Computer System Using Hand Gestures ⇗   DECEMBER 2022 – APRIL 2023
- Built a deep learning model using Python,C++, TensorFlow, Keras, and OpenCV to classify and recognize real-time hand gestures with high accuracy.
- Designed and programmed a gesture-controlled interface that replicated mouse and keyboard functions, leveraging C++ for system-level performance alongside NumPy, Pandas, and PyTorch for data preprocessing and experimentation.Applied Jupyter Notebook and GitHub for model development, version control, and collaborative code reviews across a 3-member team

Online Cryptographic Website ⇗   AUGUST 2022 – DECEMBER 2022
- Developed a secure web platform using HTML5, CSS3, JavaScript (ES6+), React.js, and Bootstrap to encrypt and decrypt messages with modern cryptographic algorithms.
- Implemented frontend logic flows and REST APIs for real-time data handling, ensuring accuracy and scalability.
- Utilized Node.js, Express.js, and GitHub Actions (CI/CD) for backend integration and deployment, while leading a 5-member team using Agile tools.

Neighborhood Resource Sharing App ⇗   JANUARY 2022 – APRIL 2022
- Developed a responsive single-page web application using React.js, JavaScript (ES6+), HTML5, and CSS3, enabling neighbors to share, borrow, and exchange community resources.
- Designed dynamic UI components with React state management, ensuring seamless navigation and improved user experience.
- Integrated item listing and search features with modular, reusable code, improving scalability and maintainability.
- Deployed the application on Netlify with GitHub version control, ensuring continuous deployment and accessibility across devices

Smart Walking Stick   JULY 2021 – DECEMBER 2021
- 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.

Smoke Detection System   AUGUST 2019 – DECEMBER 2019
- Employed Arduino to create an advanced, sensitive system for early smoke detection and fire prevention, which incorporates sophisticated sensor arrays and real-time data analysis software.

HONORS AND ACHIEVEMENTS

- $1,000 scholarship for the Entrepreneurship and Innovation Program commitment and contribution, Illinois Tech (JULY 17, 2023).
- $2,500 scholarship for Project Management Internship for excellence in project management understanding and execution, Illinois Tech (JULY 3, 2023).
- Research publication: Interactive Computer Systems Using Hand Gestures. ⇗