RAVINDRA BABU DEVABHAKTUNI

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science
Master of Science in Computer Science *May 2024*
Cumulative GPA: 3.51/4.00
Relevant Coursework: Programming Languages, Design & Analysis of Algorithms, Design Patterns, Database Systems, Data Mining, Cloud Computing, Software and Engineering Project Management, Operating Systems, Computer Architecture & Organization

Koneru Lakshmaiah Education Foundation
Bachelor of Technology in Computer Science and Engineering *May 2022*

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript
Web Development: HTML, CSS, JavaScript, ReactJS, NodeJS, ExpressJS
Database, Tools and Technologies: SQL, MongoDB, PostgreSQL, Docker, Kubernetes, Git, GitHub, Jasmine, VSCode
Certifications: The Complete 2024 Web Development Bootcam, MERN 2025 Edition - MongoDB, Express, React and NodeJS

PROFESSIONAL EXPERIENCE

Avishkar Tech Solutions, *Artificial Intelligence Intern* | Hyderabad, India *May 2020 – August 2020*

- Developed an AI-powered chatbot using Python and TensorFlow, integrating ML algorithms including recurrent neural networks (RNNs) and long short-term memory (LSTM) networks to understand and respond to user queries effectively
- Achieved a 15% increase in accuracy through data preprocessing and fine-tuning of the chatbot's neural network architecture, resulting in increased user engagement and satisfaction
- Conducted thorough research on user interaction patterns and incorporated sentiment analysis techniques to further refine the chatbot's responses

PROJECT EXPERIENCE

BuzzTalk, GitHub Link **|** *MERN Stack Developer*| Independent Project

- Developed a real-time chat application using the MERN stack, integrating user authentication, instant messaging, and real-time updates.
- Utilized React for the frontend, Node.js and Express for the backend, MongoDB for data storage, and Socket.io for real-time communication.

Amazon Clone, GitHub Link **|** *JavaScript Developer*| Independent Project

- Developed an e-commerce website clone using HTML, CSS, and JavaScript, replicating core functionalities such as product listings and a shopping cart system.
- Utilized the Document Object Model (DOM) to manipulate HTML elements dynamically, enhancing user experience. Implemented unit testing with Jasmine to ensure code reliability and maintainability.

My Job Journey, GitHub Link **|** *Full Stack Developer*| Independent Project

- Developed a full-stack MERN application, to manage job application tracking and interview scheduling, featuring user authentication, job status updates, and analytics dashboards.
- Implemented user authentication, job status management, and analytics dashboards, utilizing React for the frontend, Node.js and Express for the backend, and MongoDB for data storage.

Global Job Analysis and Visualization, GitHub Link **|** *Full Stack Developer*| Independent Project

- Executed a comprehensive analysis of global job postings using MongoDB, uncovering insights on job trends, company hiring patterns, salary distribution, and job preferences
- Established a user-friendly web interface utilizing HTML and CSS, enabling users to examine and analyze the results of the analysis interactively

Sentiment and Hate Speech Analysis Dashboard, *Full Stack Developer*| Independent Project

- Designed and built a web dashboard using Flask and PostgreSQL to analyze and visualize sentiment and hate speech trends from Reddit, 4chan, YouTube, and political discussions
- Leveraged Matplotlib for dynamic data visualizations and established comprehensive data querying and error handling to ensure an effective user experience

Cloud-Based Health Management System, *Team Member*| Group Project

- Developed a cloud-based platform for instant access to EHRs for healthcare providers and patients using MongoDB for data management, Node.js for backend, Docker for containerization, and Kubernetes for video conferencing
- Implemented secure logins to data privacy and demonstrated expertise in containerization and full-stack development.

PUBLICATIONS

Dr. T, Dr. Pvvs, **Ravindra Babu Devabhaktuni**, Vamsi, P, & B. (2022). Detection of COVID Disease from CT Scan Images using CNN Model. *2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS)* (pp. 1-6). IEEE. https://doi.org/10.1109/ICAIS53314.2022.9742758