

RAVINDRA BABU DEVABHAKTUNI

Chicago, IL | (607) 349-1333 | rdevabhaktun@binghamton.edu | [Portfolio](#) | [LinkedIn](#) | [GitHub](#)

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

Cumulative GPA: 4.00/4.00

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.
- Implemented 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>