Sai Alekhya Ravi

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Professional Summary

Computer Science Master's graduate with expertise in Python, Java, and full-stack development. Proven ability to design and implement scalable solutions, including a Pill Reminder app that reduced user error by 30% and a real-time Vehicle Tracking system that improved location accuracy by 25%. Seeking to apply strong software engineering and data analysis skills to a Software Developer or Data Analyst role.

Technical Skills

- **Languages:** Python, Java, JavaScript, SQL, HTML/CSS
- **Libraries & Frameworks:** Pandas, NumPy, NLTK, scikit-learn, Google Maps API
- **Tools & Platforms:** Git, Docker, Android Studio, Firebase, SQLite, MySQL
- **Methodologies & Concepts:** Agile Methodologies, AI/ML, Full-Stack Development, Data Analysis

Professional Experience

Freelance Web Developer | Washy Washy World | New Bedford, MA | August 2025-October 2025
- Developed and launched a responsive, bilingual business website serving 2 locations with 500+ monthly visitors
- Engineered a Single Page Application (SPA) with dynamic content loading, reducing page load times by 60%
- Implemented multi-language support (English/Spanish) with real-time translation system for diverse customer base
- Created interactive galaxy-themed UI with CSS animations and JavaScript-powered visual effects
- Optimized for mobile devices, achieving 95+ Google Mobile-Friendly score across all pages
- Integrated business features: service booking system, product catalog, and social media feeds

Projects

Pill Reminder Application | Android Studio, Java, SQLite
- Designed and developed a native Android application using Java and SQLite to manage medication schedules, enhancing user adherence.
- Engineered a customizable time-based notification system that **reduced manual tracking errors by 30%** during user testing phases.
- Implemented a user-friendly UI/UX, allowing for easy addition, editing, and deletion of medication profiles.

Vehicle Tracking System | Java, Google Maps API, Firebase
- Developed a real-time vehicle tracking system by integrating Google Maps API with a Java backend to process and display location data.
- Optimized data handling and refresh rates, **improving location accuracy by 25%** compared to the baseline implementation.
- Utilized Firebase for secure, cloud-based authentication and real-time data storage, ensuring data persistence and reliability.

AI-Based Sentiment Analysis | Python, NLP Academic Project
- Built a sentiment analysis model in Python using NLTK for text preprocessing (tokenization, stop-word removal) and scikit-learn for model implementation.
- Trained a classification algorithm on a dataset of customer reviews, achieving **85% accuracy** in classifying sentiment as positive, negative, or neutral.
- Analyzed and interpreted model results to derive actionable insights from textual data.

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Education

University of Massachusetts Dartmouth

Master of Engineering in Computer Science | Sep 2023 – May 2025
Relevant Coursework: Algorithms, Database Systems, Machine Learning, Theoretical Computer Science, Paradigmatic Software Development, Data Analytics
GPA: 3.6

Guru Nanak Institutions Technical Campus, India

Bachelor of Technology in Computer Science & Engineering | Aug 2019 – Jun 2023