

JANIT RAJKARNIKAR

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EDUCATION

The University of Southern Mississippi

Hattiesburg, MS

Bachelor of Computer Science

May 2026

Minor: Economic Data Analysis

Awards: Merit based scholarship that covers full tuition

January 2023

SKILLS

Languages: Python, C++, Javascript, Ruby, Visual Basic, C#

Frontend/ Backend: Django, Express, Ruby on Rails, NodeJS, Yarn, React, React Native, Next

Libraries/ Tools: Git, Sci-kit Learn, Flask, PyTorch, Matplotlib, Pandas, Unity, .NET, Three.js

RESEARCH EXPERIENCE

Research Assistant

Hattiesburg, MS

The University of Southern Mississippi

May 2024 - Present

Project: Comparative Analysis of Ensemble Models for Practical Phishing Detection

- Selected and implemented effective feature selection methods, optimizing model performance for phishing detection.
- Trained multiple ensemble models, contributing to the comparative analysis and current drafting of the research paper.

PROJECTS

The Designer's Touch

Technologies Used: React, Node.js, Express, Three.js, Firebase, AWS

- Developed an interactive platform allowing users to design custom merchandise with a real-time 3D preview, enhancing the user experience with dynamic design visualization.
- Deployed the website, managing server maintenance, version control and continuous integration using AWS.

Calorie Tracker

Technologies Used: React Native, SQLite, Node.js, Express

- Developed a simple and intuitive mobile app for tracking daily calorie intake, ensuring a smooth and intuitive user experience.
- Implemented efficient data storage and retrieval mechanisms with SQLite, enabling users to easily log and monitor calorie consumption, set goals, and check intake history.

Emotion Tracker (Emoki)

Technologies Used: React Native, SQLite, Node.js, Express MongoDB

- Enabled real-time emotion tracking using ML models, offering insights into emotional trends over time, while also logging intense emotions and their locations for further analysis.
- Developed a chatbot feature that tracks user messages and emotions, offering personalized responses to soothe emotional distress.

Finance Management Application (Otus Finance)

Technologies Used: C#, SQLite

- Engineered a finance management application using C# and SQLite, featuring a modular architecture for managing financial transactions and budgeting.
- Optimized database operations in SQLite, resulting in efficient data handling and improved application performance for real-time financial management.