

Rahul Ega

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EXPERIENCE

Full Stack Developer (Volunteer)

Mar 25' - Present
Remote, USA

SAAYAM For All (501(c)(3) Non-Profit)

- Develop React/React Native components for Saayam's web and mobile application supporting global volunteer collaboration.
- Design microservices for managing volunteers, requests, data analytics, and generative AI, using Java, Python, Go, React.js, and Spring Boot.
- Integrate and deploy robust cloud-native architectures on AWS (Cognito, Lambda, API Gateway, EKS, Cloudwatch, RDS), following best security practices.
- Write unit tests and automated test cases, and provide thorough documentation for all developed features.
- Work with PostgreSQL and Aurora databases to ensure scalable, secure data storage and access across the platform.

PROJECTS

Bioscope: Biodiversity Risk Assessment Application

GitHub: github.com/Rahul9121/bioscope-project

- Led development of a web-based platform to monitor biodiversity and assess risk in New Jersey, integrating environmental data analysis and geographic visualization.
- Implemented species and habitat metrics using sectoral and lifecycle models; enabled organizations to track and reduce their ecological impact.
- **Stack:** Python, Flask, data visualization libraries.

Airbnb NYC Analytics Dashboard

GitHub: github.com/Rahul9121/airbnb-rahul-streamlit

- Created an interactive analytics dashboard for exploring New York City Airbnb listings, visualizing pricing strategies and market trends.
- Utilized comprehensive EDA, geographic mapping, and user-friendly Streamlit UI.
- **Stack:** Python, Pandas, Streamlit.

IPL Data Visualization & Analysis

GitHub: github.com/Rahul9121/iplDataViz-rahul

- Designed dashboards for in-depth analysis of Indian Premier League cricket data across a decade.
- Provided player, team, and match insights using advanced Python data visualization.
- **Stack:** Python, Matplotlib, Pandas.

Student Management System

GitHub: github.com/Rahul9121/Student-Management-System-Rahul

- Built a modern web application for academic records management using Flask and SQLAlchemy.
- Developed secure user interfaces and robust backend data handling.
- **Stack:** Python, Flask, SQLAlchemy.

Tax Tracking System

GitHub: github.com/Rahul9121/tax-tracker-system

- Developed a web-based tool for managing company tax records and payments.
- Automated reporting and compliance using secure database operations.
- **Stack:** Python, Flask, PostgreSQL.

EDUCATION

Masters in Data Science

Montclair State University, New Jersey

Bachelor of Technology in Computer Science and Engineering

Bharath Institute of Higher Educational And Research

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Java, Go

Web & Mobile Development: React, React Native, Flask, Streamlit

Backend & APIs: Spring Boot, REST APIs, gRPC, Node.js

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Plotly, Seaborn, Power Bi, Tableau

Databases: PostgreSQL, MySQL, SQLite, AWS Aurora

Cloud & DevOps: AWS (Lambda, Cognito, API Gateway, EKS, Cloudwatch, RDS), Docker, Kubernetes, GitHub

Testing & Documentation: Unit Testing (Pytest, JUnit), Automated Tests, Project Documentation



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