

Sabin Raut

sabinraut343@gmail.com

<https://www.linkedin.com/in/sabin-raut>

Bachelor of Science Information Systems & Finance

<https://github.com/sabin901>

<https://sabin901.github.io/sabin-portfolio>

13202246990

505 12th St S, 104, Saint Cloud, MN, 56301, US

Information Systems & Finance student with hands-on experience building full-stack and backend software systems that process, analyze, and present data through user-facing applications. Strong background in client-server architecture, API design, and data modeling, with practical experience working across backend services, web interfaces, and UX collaboration. Combines technical execution with business and financial context, focusing on performance, data correctness, scalability, and reliable system design in fast-paced, collaborative environments.

Work Experience

Web Platform & Systems Intern

Jan 2026 - Present

TheBenefactor.net | Remote

- Assisted with backend and frontend development by testing features and validating end-to-end platform workflows
- Identified, reproduced, and documented bugs related to data presentation, user-facing applications, and account state
- Supported users with technical issues involving authentication flows, wallet connections, and reward claims, improving platform reliability
- Collaborated with developers and designers to improve user experience (UX) through testing and iteration
- Contributed to documentation, feature validation, and small development tasks in a fast-paced startup environment
- Researched competitor platforms and UI/UX patterns to inform feature ideas and product improvements
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Data & Systems Assistant

Jan 2023 - May 2024

Nepalese Student Association | St. Cloud State University

- Maintained and updated structured records using SQL-based data systems
- Validated data accuracy and resolved inconsistencies across multiple datasets
- Supported operational reporting and internal systems used for participation and event tracking
- Worked with sensitive data requiring correctness, consistency, and attention to detail

Shift Supervisor

Aug 2023 - May 2024

James W. Miller Library | St. Cloud State University

- Led daily operations in a fast-paced, team-based environment
- Coordinated staff workflows and resolved issues under time pressure Demonstrated reliability, ownership, and strong attention to detail

Projects

Full Stack Analytics Platform

May 2024 - Present

Lead Developer

- Designed and implemented a full stack software system for real-world analytics use cases
- Architected backend APIs, database schema, and time-series data flows with scalability and correctness in mind
- Built frontend and backend components with attention to performance, testing, and maintainability
- Owned debugging, performance optimization, and architectural trade-offs across the system lifecycle

Routine — Personal Analytics Platform

- Built an authenticated web application integrating backend services with interactive UI dashboards
- Modeled time-series data for focus, energy, and spending with aggregation and validation logic
- Designed system architecture focused on data correctness, usability, and long-term maintainability

Neural Muse Dashboard — EEG Data Visualization

- Processed multi-band EEG time-series data into structured datasets
- Built interactive visualizations to present complex data in intuitive, user-friendly formats
- Worked extensively with noisy data, validation logic, and performance considerations

Application Manager — Desktop Workflow Tool

- Developed a desktop application to manage structured workflows and records
- Implemented filtering, status tracking, and persistence for repeated daily use
- Applied clean object-oriented design principles for reliability and maintainability

Ayur.me — Health Decision-Support Platform

- React, TypeScript, Node.js
- Designed a full-stack web platform to guide users through structured health assessments
- Modeled domain-specific knowledge into structured data and rule-based logic for personalized recommendations
- Built backend APIs to process user inputs, validate responses, and generate explainable outputs
- Focused on user experience, clarity, and responsible presentation of sensitive information
- Designed the system with extensibility in mind for future data sources and analytics

Volunteer Experience

Donor Ambassador

American Red Cross

Jan 2023 - Jul 2025

- Welcomed and assisted blood donors, ensuring a smooth, organized, and positive donation experience
- Communicated clearly with donors to explain procedures, answer questions, and reduce anxiety
- Coordinated with staff and volunteers in a fast-paced, team-based environment to maintain efficient operations
- Supported check-in, flow management, and post-donation assistance with attention to accuracy and safety
- Demonstrated professionalism, reliability, and empathy while working with diverse populations

Core Skills

Programming Languages: Java, Python, TypeScript, JavaScript, C#, SQL

Core Engineering Concepts: Object-oriented programming, data structures and algorithms, client-server architecture, REST APIs, debugging, performance optimization

Web & Systems: Frontend and backend development, API design, platform testing, UX collaboration

Frameworks & Tools: React, FastAPI, .NET, PostgreSQL, Supabase, Git, Linux

Data & Analytics: Time-series processing, data modeling, validation, visualization, forecasting

Education

St. Cloud State University

Jan 2022 – Dec 2026

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