Sabin Raut

Information System | Finance |
United States

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💻 GitHub: https://github.com/sabin901

🌐 Portfolio: https://sabin901.github.io/sabin-portfolio

SUMMARY

Information system and Finance student with hands-on experience building production-ready, user-facing applications across web, backend, and data layers. Strong foundation in client–server architecture, analytics pipelines, and operational workflows, with a product mindset focused on reliability, clarity, and real-world impact. Passionate about building systems that quietly power critical operations and improve access to essential services.

EDUCATION

St. Cloud State University
Bachelor of Science — Information Systems
Expected Graduation: **Fall 2026**

Relevant Focus:
Software Engineering · Backend APIs · Systems Design · Data Modeling · UX Collaboration

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TECHNICAL SKILLS

Languages
Python, TypeScript, JavaScript, C#

Frameworks & Tools
React, FastAPI, REST APIs, PostgreSQL, Supabase, Git, Linux

Engineering Concepts
Client–Server Architecture · Authentication & Authorization
Time-Series Data Modeling · Analytics Pipelines
Operational Workflows · Debugging & Edge-Case Handling
UX-Oriented Engineering

EXPERIENCE

TheBenefactor.net LLC

Web3 Development & Support Intern — Application Platforms
Remote | 2026 – Present

- Support and analyze real-world user interactions on a production social-finance platform.

- Work closely with platform administrators to understand end-to-end application workflows, including onboarding, rewards logic, and data visibility.

- Identify usability and reliability issues by observing how users interact with platform features in practice.

- Assist in documenting platform behavior and operational flows to improve clarity and internal knowledge sharing.

- Gain hands-on exposure to user-facing systems operating at scale, where correctness and trust are critical.

This role directly strengthens application-level thinking, ownership, and understanding of how software affects real users — aligned with Zipline's application software mission.

James W. Miller Library — St. Cloud State University

Shift Supervisor
2023 – 2024

- Supervised day-to-day operations in a high-traffic, service-oriented environment.

- Coordinated workflows across staff, resolving issues efficiently under time pressure.

- Developed strong operational judgment, responsibility, and real-time problem solving.

- Ensured reliability and consistency in systems used by hundreds of daily users.

Private Tutor — STEM & Technical Subjects

2022 – 2025

- Delivered one-on-one tutoring in math, science, and technical subjects.

- Translated complex systems into clear, step-by-step explanations.

- Strengthened communication, user empathy, and structured problem-solving skills.

PROJECTS

Routine — Full-Stack Application (Signature Project)

React · TypeScript · FastAPI · PostgreSQL · Supabase

A production-ready system that measures the cost of interruptions and helps users understand focus through explainable analytics.

- Designed and deployed a secure full-stack application with authenticated, user-isolated data access.

- Modeled focus sessions and interruptions using duration, recovery time, and contextual weighting.

- Built an analytics engine computing daily and weekly metrics, focus quality, and recovery patterns.

- Generated professional PDF and CSV reports for clear operational insight and sharing.

- Handled real-world edge cases: overlapping sessions, empty datasets, time zones.

Neural Muse Dashboard — Data Visualization Platform

TypeScript · Data Processing

- Built interactive dashboards for time-series EEG data across multiple frequency bands.

- Processed and visualized signals to support interpretability and pattern recognition.

- Emphasized correctness, clean transformations, and clear presentation of complex data.

Application Manager - Desktop Tool

C# · Structured Data Systems

- Developed a desktop application to track job applications, statuses, and follow-ups.

- Implemented structured storage, filtering logic, and workflow-driven UI.

- Designed for reliability and daily operational use.

SCSU Event Recommender

C# · Recommendation Logic

- Designed a recommendation system to personalize campus event discovery.

- Applied filtering, ranking, and decision-support logic.

Additional Projects

- Ayur.me: Web platform focused on structured navigation and calm UX for complex wellness topics.

- Weather Analyzer: Data analysis application summarizing trends over time.

ENGINEERING APPROACH

- Prioritizes correctness, reliability, and edge-case handling

- Designs systems with operational clarity and maintainability

- Comfortable owning features from design → implementation → iteration

- Makes deliberate tradeoffs and documents decisions

INTERESTS

Application Software · Systems Design · Logistics & Operations · Data-Driven Products · Human-Centered Engineering