

Ronish Ghimire

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Professional Summary

B.Sc. CSIT student focused on backend engineering, static code analysis, and IoT systems. Built projects with Python, Go, and PostgreSQL, including an AST-based code analysis engine and a real-time RFID attendance platform. Seeking a software engineering internship to contribute to scalable backend services and developer tooling.

Education

B.Sc. CSIT

Samriddhi College (Affiliated to Tribhuvan University), Nepal

Expected Graduation: 2083

Technical Skills

- **Languages:** JavaScript, Python, Go
- **Frameworks:** Node.js, React, Next.js, Flask, Gin
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Tools:** Git, Docker, Postman
- **Concepts:** Data Structures and Algorithms, DBMS, REST APIs, Authentication

Selected Projects

Constitution Assistant (Python, Retrieval System)

GitHub

- Built a retrieval-based system to answer queries from the Constitution using structured parsing instead of vector embeddings
- Designed a rule-based retrieval pipeline to locate relevant articles and context efficiently
- Implemented a lightweight architecture that avoids vector databases while maintaining accurate and explainable responses

Intelligent Static Code Analysis Engine (Python, AST)

GitHub

- Developed a Python-based static analysis engine using AST traversal to detect vulnerability and code-smell patterns
- Designed a modular, rule-based architecture that supports adding new detection rules with minimal code changes
- Improved maintainability analysis by automating repeated review checks and standardizing pattern detection

RFID Attendance System (Go, Gin, PostgreSQL, ESP32)

GitHub

- Built a real-time attendance platform using ESP32, Go (Gin, GORM), and PostgreSQL
- Implemented check-in/check-out workflows with configurable tolerance logic for practical organization usage
- Developed backend APIs and designed an optimized relational schema for reliable, low-latency attendance tracking

Experience

Mentor – Robotics and IoT Bootcamp

- Mentored participants through hands-on robotics and IoT projects, including sensor integration and microcontroller programming
- Supported debugging across hardware and software layers during practical sessions to keep projects on track
- Simplified embedded systems and IoT concepts through guided labs and structured troubleshooting support

Leadership

Technical Head – Samriddhi IT Club

- Led technical initiatives and coordinated development-focused activities across the student club
- Organized workshops and events on programming, IoT, and emerging technologies for peer learning
- Mentored junior members and helped build a collaborative engineering culture within the community

Extra-Curricular Activities

- Robotics Club, IoT Workshops, Tech Communities