

Ayush Aryal

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GitHub: github.com/AryalAyush09

PROFESSIONAL SUMMARY

Backend developer skilled in Java, Spring Boot, and PostgreSQL, experience in designing secure, scalable REST APIs and real-time systems. Strong in authentication, database optimization, and clean architecture. Passionate about solving complex backend challenges and contributing to impactful team projects.

TECHNICAL SKILLS

- **Languages & Frameworks:** Java, Spring Boot, Hibernate/JPA.
- **Database & ORM:** PostgreSQL, PostGIS, Entity Relationships.
- **API Design & Architecture:** Clean Architecture, RESTful APIs, DTO, Service Layer
- **Authentication & Security:** JWT, RBAC, Refresh Tokens, BCrypt, OTP
- **Real-Time Communication:** WebSocket (STOMP), Notifications, Typing Indicators
- **Testing & Documentation:** Swagger, Postman, Validation, Exception Handling
- **Dev Tools & Version Control:** GitHub, IntelliJ IDEA, STS, VS Code
- **Cloud & Media Management:** Cloudinary, Email OTP, SMS API.

PROFESSIONAL EXPERIENCE

CodeRawLingo – Backend Developer (2025)

- Built RESTful APIs with Spring Boot using DTOs and JPA for PostgreSQL integration.
- Handled API documentation (Swagger), testing (Postman), and backend deployment with team.

PROJECTS

SunauloNepal (Hackathon Project) – Backend Developer (2025)

🏆 2nd Runner-Up at ARBIT National Level Hackathon

- Developed a complaint management system integrating real-time user–authority chat via WebSocket.
- Implemented polygon-based coverage area mapping using PostGIS to route complaints by location.

- Integrated with n8n via webhook callbacks for complaint status automation.
- Built multi-channel notification system (WebSocket, Push, Sparrow SMS).
- Ensured clean backend design with Lombok, DTO abstraction, and layered architecture.

SkillShare – Backend Developer (2025 – Present)

GitHub Repo

- Developed user, category, and skill management modules in Spring Boot.
- Built a mutual skill-matching algorithm (HAVE/NEED logic) across categories.
- Secured system with JWT authentication, refresh tokens, and RBAC.
- Added real-time chat and notifications with WebSocket.
- Managed media (Cloudinary) and OTP-based email verification.

IntraWise Secure Assistant – Backend Developer (Ongoing)

- Built an AI-powered internal assistant for enterprise HR, IT, and policy queries.
- Implemented RBAC with JWT and OTP for secure access control.
- Designed secure document upload/retrieval (PDF, DOCX, TXT).
- Integrated pgvector + Spring AI for RAG-based contextual answers.
- Added transparency with document references, logging, and audit tracking.

LEADERSHIP & COMMUNITY EXPERIENCE

Nepathon Vol.1 – Hackathon Director (2025)

- Directed and organized *Nepathon Vol.1*, a national-level hackathon.
- Led a team of organizers to plan, manage, and execute the 48-hour event.
- Coordinated with sponsors, mentors, and judges to ensure smooth operations.
- Designed and maintained GitHub project structure to streamline team submissions and code reviews.

EDUCATION

B.Sc. CSIT – Tribhuvan University (8th Semester – Ongoing)

12th Grade – GPA: 3.64 (Passed in 2078 B.S.)

Certificate

OF ACHIEVEMENT

PROUDLY AWARDED TO


Ayush Aryal

for outstanding performance and securing **Third Position** in the 48 Hours Aribt Tilottama Hackathon, organized by Abhyam Robotics, Institution of Business and Technology in collaboration with Tilottama Municipality.

Your achievement demonstrates exceptional creativity, technical excellence, and a forward-thinking approach to innovation.

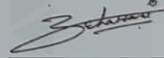
Date: September 19-20-21, 2025




Ram Krishna Khand
Mayor | Tilottama Municipality


Krishna Neupane
Judge


Rahul Ghimire
Founder | CEO


Madhusudan Bhattarai
Convenor

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