# Saroj Bhattarai

sarojbhattarai321imp@gmail.com | GitHub: https://github.com/joras-droid | Maryland, USA

## EDUCATION

**Bachelor of Science in Computer Science**
Wright State University
         - Expected Graduation: 2029

**Transferred Coursework in Computer Science**
Community College of Baltimore County

**Honors:**

- Dean's List – Fall 2025 (GPA 3.5+)

- Inducted Member – Phi Theta Kappa Honor Society (2026)

Relevant Coursework: Data Structures, Object-Oriented Programming (Java), Digital Logic Design, Linux Systems, Algorithms

## TECHNICAL SKILLS

**Languages:** Java, Python
**Backend & Tools:** Node.js, Docker
**Databases:** MongoDB
**Systems & Cloud:** Linux CLI, AWS (EC2 basics), LVM, File Permissions
**Concepts:** OOP, Data Structures, FSM Design, Multithreading, Debugging

## EXPERIENCE

**Software Engineering Intern**

**FactoryX Nepal – B2B Video-Commerce Marketplace**
*(Flutter · Node.js · MySQL · AWS · Docker)*
Application live on Google Play Store

- Contributed to backend development for a live production marketplace platform.

- Applied strong Java and object-oriented programming fundamentals to understand backend architecture and business logic.

- Helped debug API errors and analyzed server logs to resolve production issues.

- Supported database schema updates for product and order workflows.

- Gained hands-on exposure to Docker containerization and AWS deployment environments.

- Strengthened Linux command-line skills while working with server configurations and environment variables.

- Participated in feature testing before production releases to maintain stability and reliability.

**Team Lead – Secure Biometric Login App (Hackathon Award)**

Wright State University – Make It Wright Hackathon (Spring 2025)
*(Flutter · Java · MongoDB · Docker · Ngrok)*

- Led a 5-member team in building a secure fingerprint-based authentication system.

- Developed backend authentication logic using Java.

- Integrated MongoDB for secure user session management.

- Containerized services using Docker and configured secure tunneling with ngrok.

- Awarded "**Best Collaboration Recognition**" by the College of Engineering & Computer Science Alumni Society.

**ACADEMIC PROJECTS**

**Digital Systems & Architecture (Logisim Evolution)**

- Designed and simulated Moore & Mealy finite state machines.

- Built a modular traffic light controller using state modeling.

- Designed a simplified microprocessor (Register File, ALU, ROM Control Unit, RAM Datapath).

- Performed propagation delay and clock frequency analysis.

**Java Projects**

- Engineered an event-driven Package Delivery Simulation using OOP and queue modeling.

- Built grid-based navigation and data aggregation systems using arrays and collections.

- Implemented multi-threaded applications and recursive algorithms.

- Designed GUI applications using Java Swing.

## LINUX SYSTEM ADMINISTRATION (CompTIA Linux+)

Community College of Baltimore County

- Managed users, groups, permissions, and access control.

- Installed and managed packages across Debian and RedHat systems.

- Configured storage, mounting, and logical volume management (LVM).

- Performed file archiving, compression, and system configuration editing.

## LEADERSHIP

**Co-Founder Of Computer Club**
**President Of Student Council (2022–2023)**
Kamana International College

- Delivered HTML and Python training sessions.

- Mentored junior students in computing fundamentals.

- Organized technical workshops and academic events.

## LANGUAGES

Nepali (Native)
English (Professional Working Proficiency)
Hindi (Conversational)