# Suman Dangal

Boston, MA | +1 (413) 234-2414 | sumandangal007@gmail.com

linkedin.com/in/suman-dangal-007np | github.com/L00SIRE | sumandangal.com.np

## EDUCATION

**Springfield College** — Springfield, MA
*Bachelor of Science in Computer Science* — *Expected May 2028*
- **GPA**: 3.98/4.0 | **Honors**: Dean's List (Fall 2024, Spring 2025, Fall 2025)
- **Relevant Coursework**: Object-Oriented Programming (Java), Deep Learning Fundamentals I & II, Data Structures (C++), Computer Architecture, Linear Algebra, Probability & Statistics, Advanced Python.

## TECHNICAL SKILLS

**Languages**: Python, Java, C++, JavaScript, GoLang, SQL, Shell
**Web & Backend**: REST API, GraphQL, HTML, CSS, AWS
**AI & Machine Learning**: RAG, Vector Databases, LLM Integration, Deep Learning, Echo State Networks
**Tools**: Git, GitHub, VS Code, Linux

## EXPERIENCE

**Springfield College** — Springfield, MA
*Teaching Assistant – Data Structures & Algorithms (C++)* — *Jan 2026 – Present*
- Facilitating lab sessions and code reviews for 30+ students, reinforcing concepts in memory management, pointers, and time complexity analysis.
- Assisting in debugging complex C++ implementations and grading algorithmic assignments.

**Springfield College** — Springfield, MA
*Resident Assistant (Freshman Hall)* — *Jan 2026 – Present*
- Mentoring a diverse community of 40+ freshman students, serving as the primary resource for conflict resolution, crisis management, and academic support.
- Fostering an inclusive living environment for international and domestic students by organizing community-building events and mediating interpersonal disputes.

**Dr. Money** — Boston, MA
*Co-Founder & Full Stack Engineer* — *Feb 2025 – Jan 2026*
- Engineered a geofencing-driven credit-card recommendation feature using location triggers, reducing native background-location battery draw by 35% via a custom high-efficiency processing pipeline.
- Migrated storage layer from browser local storage to a dual-tier embedded database, reducing average data-fetch response time from 500ms to 200ms and enabling offline-sync reliability.
- Secured $11K in prize funding and placed 2nd out of 15 teams at the WNE AI + FinTech Challenge.

**Saalik Tech Pvt. Ltd** — Kathmandu, Nepal
*Co-Founder & CTO* — *May 2023 – Present*
- Led feasibility studies on AI-driven object detection for 150+ sculptures, delivering a proof-of-concept model with 92% detection accuracy.
- Secured NPR 1.5 million in seed funding by pitching technical roadmaps to government organizations.

## PROJECTS & RESEARCH

**Ratools (Web-Based Bulletin Board Suite)** | *Python, HTML/CSS, JavaScript* — Jan 2026
- Developed a web application to automate the design of large-scale bulletin boards, implementing **Lanczos resampling** and **Bicubic interpolation** for high-fidelity image upscaling.
- Engineered an automated tiling algorithm to fragment large graphics into printable A4-sized segments, reducing manual design preparation time by 90%.

**Diabetes Classification with Echo State Networks** | *Researcher* — Jan 2024
- Built a specialized ESN architecture improving diabetes classification accuracy to 97% on benchmark datasets; awarded Best Paper in Knowledge Management and Best Presenter in Undergrad Category at Green Cities Conference.

**Dristi AI (Medical Anomaly Detection)** | *Lead Developer* — Aug 2023
- Built an AI model to detect anomalies in bodily fluids for rural healthcare; won Silver Medal at APCYS 2023.

**Graph Theory Visualizer** | *Developer* — Oct 2024
- Designed a tool visualizing complex graph structures, integrating the Hajnal-Szemerédi algorithm for equitable coloring.

## LEADERSHIP

**Vice President**, CS Club | **Honors Council Member** | **President**, SWSCRC (Robotics Club)