

SUJIT LOPCHAN

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OBJECTIVE

Computer Science student with hands-on experience in AI/software engineering, IT support, and community leadership, seeking a research opportunity in AI and Robotics.

EDUCATION

B.S. in Computer Science | Louisiana Tech University | Ruston, LA | Expected May 2027

Relevant Coursework: Intro to Cyber Security, Data Structures & Algorithms, Systems Programming, Database Management, Operating Systems, Computer Architecture

CERTIFICATIONS

Cybersecurity Fundamentals — ISACA

Validates core competencies in cybersecurity frameworks, risk assessment, vulnerability mitigation, and security best practices.

Data Science Fundamentals — ISACA

Covers core concepts of data analysis and data security.

EXPERIENCE

Software Engineering Intern | SleepNavigators (WellNecessities Inc. / VitalSleep, LLC) | Shreveport, LA **May 2026 – Present**

- Build AI-powered chatbots and conversational BI tools to support patient engagement and internal reporting for a sleep health company.
- Designed the technical product architecture for the After Call Assistant Bot, a multi-agent post-call patient engagement system (see Projects).
- Evaluated the company's patient-provider web application and proposed targeted improvements to user experience and reliability.

IT Support Technician | Louisiana Tech IT Helpdesk | Ruston, LA **May 2025 – May 2026**

- Resolved helpdesk tickets for students, faculty, and staff by troubleshooting hardware, software, and printer issues; performed secure data sanitization and deployed configured campus devices.
- Developed and maintained an AI chatbot for the AWS Helpdesk handling tuition, MFA, Workday, and service inquiries, reducing call times by 30–40 minutes and improving helpdesk efficiency.

Software Engineering Fellow | Headstarter AI | Remote **July 2024 – August 2024**

- Completed a 7-week fellowship building AI-powered applications, delivering production-ready features through hackathon-style projects under tight weekly deadlines.
- Built full-stack AI projects integrating frontend, backend, cloud, and LLM components; collaborated globally via Git and agile workflows, iterating based on user feedback.

President | Namaste Nepal Association, Louisiana Tech University | Ruston, LA **Mar 2025 – Mar 2026**

- Lead a student organization representing the Nepali community at Louisiana Tech, organizing cultural events, coordinating outreach initiatives, and managing a diverse team of members.
- Oversee event logistics, member communications, and partnership outreach with university departments — building skills in project planning, stakeholder engagement, and community building.

PROJECTS

After Call Assistant Bot | SleepNavigators **May 2026 – Present**

- Designed a multi-agent, HIPAA-compliant post-call patient engagement system for a sleep health provider, including a RAG pipeline for context-aware patient responses.
- Defined a phased technical roadmap covering system architecture, data safeguards, and deployment milestones.

Technologies: Gemini API, Python, Pinecone, Claude Sonnet 3.5

AWS-Based AI Chatbot | Louisiana Tech University **July 2024 – Sept 2024**

- Developed an AI-powered IT support chatbot to handle common helpdesk questions, reducing repetitive calls and improving response times.
- Integrated backend services for account access, MFA, and university systems, prioritizing accuracy, reliability, and user experience.

Technologies: Python, AWS Lambda, Amazon Bedrock, CloudWatch

AWARDS & ACHIEVEMENTS

3rd Place — Nepal-US Hackathon | Nepali Leaders Network

Placed 3rd in my first-ever hackathon, a Nepal-US competition organized by the Nepali Leaders Network. Demonstrated ability to rapidly prototype and deliver solutions under time pressure.

TECHNICAL SKILLS

Programming: Python, Java, C, JavaScript, PHP, HTML/CSS, SQL

Cloud & Tools: AWS (Bedrock, Lambda, CloudWatch), Git, Linux, cloud deployment & monitoring

AI/ML: LLM integration, RAG pipelines, conversational AI, multi-agent systems, Claude API