

# Santosh Luitel

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Website: santoshluitel.com

GitHub: [github.com/santosh5541](https://github.com/santosh5541)

LinkedIn: [linkedin.com/in/santosh-luitel](https://linkedin.com/in/santosh-luitel)

## Profile

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Tech-savvy software engineer with expertise in backend and frontend development, microservices, network security, and AI. Strong problem-solving skills with experience in system administration, software development, customer support, and AI. Adept at working independently and in teams under pressure. Graduate student pursuing an M.S. in Computer Science at the University of South Dakota.

## Experience

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**Software Engineer – F1Soft International Pvt. Ltd.** Oct 2024 – Dec 2024

- Developed and maintained both backend and frontend components for mobile banking products.
- Worked with AngularJS, Java, Spring Boot, and a microservices architecture.
- Integrated security measures using Spring Security and optimized performance.

**Software Engineer – Code Fusion Technologies Pvt. Ltd.** May 2023 – Oct 2024

- Developed backend services using Java, Spring Boot, and MongoDB.
- Designed and implemented microservices-based architectures.
- Managed server deployments on Linux and cloud environments.

**Network Administrator & Java Software Engineer – NIC ASIA Capital Ltd.** Dec 2022 – Apr 2023

- Developed Java-based web applications using Spring Framework, Hibernate, and RESTful APIs.
- Automated tasks using Selenium and managed version control with Git.
- Monitored and maintained security operations including firewalls and network devices.
- Provided technical support and documented network/system changes.

**IT Support Engineer – Casino Palace Ltd.** Feb 2022 – Nov 2022

- Configured and maintained network devices, including APs and firewalls.
- Debugged Java code, maintained databases, and deployed web applications.
- Provided troubleshooting support for hardware, software, and network issues.
- Monitored and secured IT infrastructure, including Cloudflare and VNC servers.

## Projects

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- **MRI Tumor Detection System:** Built a deep learning pipeline using CNNs to accurately classify tumor presence in MRI scans; achieved 92% accuracy. ([github.com/santosh5541/MRISYSTEM](https://github.com/santosh5541/MRISYSTEM))
- **Power Plant Energy Management:** Developed a power plant operations with spring boot framework for reducing fuel consumption by 15%. ([github.com/santosh5541/Power-Plant](https://github.com/santosh5541/Power-Plant))
- **Inventory Management System:** Created a full-stack web application with Spring Boot and React for real-time inventory tracking, enabling automated restocking alerts. ([github.com/santosh5541/imsfinal](https://github.com/santosh5541/imsfinal))
- **Movie Recommendation Engine:** Made filtering and content-based algorithms to recommend movies, improving user engagement by 20%. ([github.com/santosh5541/movierecommendation](https://github.com/santosh5541/movierecommendation))
- **Smart Home Energy Optimization:** Designed an SAC-based RL agent to schedule appliance usage, achieving a 30% reduction in peak electricity load. ([github.com/amalsha27/RL-Project](https://github.com/amalsha27/RL-Project))

## Education

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- M.S. in Computer Science (Expected 2026) – University of South Dakota
- Bachelors in Information Management (Jan 2021) – Tribhuvan University
- High School in Computer Science (Jan 2017) – Liverpool International College

## Skills & Abilities

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- **Programming & Frameworks:** Java, Core Java, JavaScript, Spring Boot, Spring MVC, Spring Cloud, Hibernate, AngularJS, ReactJS.
- **Databases:** MySQL, MongoDB.
- **DevOps & Tools:** Jenkins, Maven, Docker.
- **Networking & Security:** Linux, Windows Server, Firewalls, Cloudflare, VPN.
- **Automation & Testing:** Selenium, JUnit.
- **Others:** Microservices, REST APIs, System Administration.

## Activities & Interests

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Technology, automation, event management, outdoor recreation.

## Achievements

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- Employee of the Month – NIC ASIA Capital Ltd. (Developed an automated IPO application system handling over \$2M in transactions.)
- HackerRank Java Developer Badge: cfe6a5659220

## References

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- Saurav Aryal – HR Manager, F1Soft International Pvt. Ltd., Lalitpur, Nepal.  
+977-98018-68503
- Sandeep Prasad Bhatt – CEO, Code Fusion Technologies, Kathmandu, Nepal.  
+977-98512-48296
- Kuldip Kumar Chaudhary – HR Head, NIC ASIA Capital Ltd., Kathmandu, Nepal.  
+977-98413-74023
- Nabin Rai – HR Admin, Casino Palace Pvt. Ltd., Kathmandu, Nepal.  
+977-98438-72280

I hereby attest that the above statements are true and correct  
to the best of my knowledge.