

# ADARSH TIWARI

1729apt@gmail.com · 8787091983 · <https://www.linkedin.com/in/adarsh-tiwari-32170b182/>

## WORK EXPERIENCE

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### Informatica

*Software Developer*

Bangalore

Sep 2022 - Present

- Developed and implemented RESTful APIs for seamless integration of cloud-based applications in Cloud Data Integration product.
- Implemented robust solutions for sanitizing special characters within data, specifically targeting challenges arising in S3 connections within the source data.
- Effectively deployed solutions for Kerberos authentication, bolstering data security protocols to ensure robust and secure access controls for database.

### Cisco Systems

*Software Developer*

Bangalore

Aug 2021 - Sep 2022

- During my time at Cisco, I contributed to the development of the Next Generation Firewall Management Solution. Specifically, I focused on web application development to facilitate the configuration, monitoring, and deployment of security solutions for firewalls, VPNs, and firewall policies.
- One of my key contributions involved implementing end-to-end functionality for snort rule validation using dockerized containers. To achieve this, I utilized the GWT framework for the UI components and leveraged Java, Shell, and Docker for the backend.
- I also implemented the end-to-end functionality for the filter-api on the firewall policy page. For this task, I used React to implement the UI components and Java and Perl for the backend. These contributions allowed for greater efficiency and effectiveness in managing network security for Cisco's clients.

### Cisco Systems

*Technical Undergraduate Intern*

Bangalore

Jan 2021 - Jul 2021

- During my internship at Cisco, I played an instrumental role in developing the FMC simulator. I designed and implemented the simulator, which bypassed the SSE connector and connected directly to the LTP simulator. The simulator runs an HTTP service on port 8989 on localhost and functions similarly to the SSE connector. By recording the expected responses for each API call in a template file, the simulator returns the appropriate response for the API call made by the FMC application.
- To test the LTP services, I utilized a Python-based test suite that simulated the client and utilized the AWS S3 smart license key store to provide a unique key for each test execution. Additionally, I ensured that reserved keys were used to prevent their usage in parallel CI/CD execution environments. My contribution to the development of the FMC simulator helped improve the functionality and reliability of the LTP service, enhancing the user experience for customers.

## SKILLS

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Programming Languages:	Java, Shell, Python
Web Development:	Javascript, Basics of React.js
IT Constructs:	Data Structures & Algorithms, OOP concepts, DBMS, Basics of Operating System
Miscellaneous:	SpringBoot, Hibernate, JPA, Spring, Elasticsearch, Mysql, Docker

## EDUCATION

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### Indian Institute of Information Technology (IIIT), Una

Bachelor of Technology ECE *GPA: 8.53*

Hamirpur, HP

Jul 2017 - May 2021

## PROJECTS

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### LogCraft project in JAVA *Java, Spring Boot, Elasticsearch, MySQL*

Developed a logging infrastructure enhancement initiative, utilizing Java, Spring Boot, and Elasticsearch to significantly improve log management. The integration of Elasticsearch offered advanced search capabilities, facilitating comprehensive log analysis and insights into system behavior. I implemented structured logging with Jakarta.json, ensuring adherence to industry best practices. Through cross-functional collaboration, I successfully integrated MySQL and Elasticsearch, optimizing data storage and retrieval. This comprehensive approach not only streamlined log parsing but also contributed to a substantial enhancement in system performance and troubleshooting efficiency.