

# Mosrou Tafadar

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## EDUCATION

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**University of Illinois at Urbana Champaign (UIUC) – Champaign, IL** **Expected: December 2025**  
Master of Science in computer Science

**University of Illinois at Chicago (UIC) – Chicago, IL** **May 2023**  
Bachelor of Science in computer Science, Minor in Statistics  
Gpa: 3.61/4.00

## SKILLS

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**Certification:** CompTIA Security+, Splunk Core Certified Power User, AWS Certified Solution Architect

**Languages:** Python, SQL, Bash, SPL, C++

**Security Tools:** Splunk, CrowdStrike, JAMF Pro, Cisco Umbrella, Microsoft Intune, Burp Suite, Wireshark

**Operating System:** Linux, MacOS, Microsoft Windows

**Cloud Platforms:** Amazon Web Service (Lambda, EC2, EKS, ECR, RDS, S3, Cloud Watch), Microsoft Azure, Docker

## WORK EXPERIENCE

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**Associate Infrastructure Engineer – Discover Financial Services** **August 2023 – Present**

- Designed and developed a python Streamlit-based application that automates the warehouse allocation process, matching users' requirement to the optimal warehouse resulting in significant cost saving.
- Implemented AWS Lambda function to monitor query execution times, triggering alert to users when query run time exceed specified threshold, ensuring timely awareness and proactive management of database performance issues.
- Assist with query optimization and SQL query writing, contributing to improve database performance and data retrieval
- Contributed to enhancing the existing Jenkins pipeline using bash and python for automated deployment of users DDL
- Enforce data security protocols, access control, and compliance standard to protect sensitive information

**Security Operation Engineer–Workiva** **August 2022 – August 2023**

- Assist to triage and resolve production incidents related to the cloud platform and participated in root cause analysis
- Collaborate with other teams to address problems from incident response and implement long term solutions
- Utilized monitoring tools like Splunk, New Relic to track system health and proactively resolve issues

**Software Engineer Intern–Discover Financial Services** **June 2022 – August 2022**

- Executed pre- and post-performance tests for multiple APIs to establish baselines and measure improvements
- Established test goals, criteria, and used diverse testing methods to assess API performance
- Verified API performance in real-world sceneries by conducting comprehensive performance test

**Security Operation Intern–Workiva** **January 2022 – June 2022**

- Analyzed security events using SIEM tools such as Splunk to detect and respond to potential security threats
- Contributed to the creation maintenance of security documentation, such as Standard Operating Procedures (SOPs)
- Assisted in incidents response, collaborating with cross-functional team to address and resolve security incidents

**Client Solution Specialist – University of Illinois at Chicago** **January 2020–January 2022**

- Efficiently resolved a wide range of client ticketing issues, including escalated IAM, VPN, and laptop security concerns
- Consult with clients, and personnel in other departments to resolve issues
- Provided on-call support as needed, swiftly addressing, and resolving urgent technical issues

## PROJECTS

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**Recommendation (Inspired by how Netflix recommendation algorithm works)–[github](#)**

- Wrote a C++ program that can predict people's preferences about books, movies, anime and music
- Developed a mathematical formula and transferred into an algorithm that can be applied to any user in a database
- Created better prediction considering ratings from the user by comparing with other user ratings.