Nishant Ranjan Srivastava

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Top Secret/Sensitive Compartmented Information w/ Fullscope Polygraph

EXPERIENCE

AMAZON WEB SERVICES   **Herndon, VA**
Systems Developer Engineer II   **March 2025 – Present**
- Engineered region build automation processes for OpenSearch into isolated partitions by developing Ruby definitions and deploying configurations utilizing Apollo, MRC, and LPT synthesis to templatize future builds
- Designed and implemented LISA's model scheduling feature, streamlining operational readiness for DoD and IC customers by eliminating manual workflows and driving significant cost reductions through capacity management
- Developed a rule-based triage platform for high-severity tickets across Amazon Dedicated Cloud, orchestrating complex actions across internal tooling and commercial platforms to streamline troubleshooting and diagnosis
- Led cross-team root cause analysis and fast-tracked code fixes for recurring OpenSearch, Redshift, and EMR faults
- Participating in weekly on-call rotations root causing operational faults and customer cases for analytical services

DEFENSE INTELLIGENCE AGENCY   **Reston, VA**
Software Engineer   **August 2023 – February 2025**
- Architected the design, implementation, and deployment of Keycloak SSO and IAM across OSINT applications facilitating automation built through CloudFormation incorporating client and server authorization in TypeScript
- Engineered a Python brokerage service handling 15+ TB of commercial data monthly utilizing Kafka and NiFi
- Stood up the ELK stack supporting OSINT applications handling complex queries reducing runtime by 60%
- Spearheaded the cross-domain solution across three networks utilizing SQS, SNS, and S3 buckets through NiFi
- Streamlined data synchronization between AWS PostgreSQL RDS to Elasticsearch built in Python and Bash scripts

DEFENSE INTELLIGENCE AGENCY   **Washington, DC**
Software Engineer   **January 2023 – July 2023**
- Orchestrated the deployment of a $5MM PWA supporting the US Strategic Command and Chief Information Office utilizing RedHat OpenShift, Docker, and Helm charts while aiding in vulnerability testing utilizing Prisma
- Accelerated project rollouts to classified networks by 85% templating scans, Docker builds, and Helm upgrades
- Implemented a dynamic NiFi cluster to handle source ETLs to ES incorporating Docker, Zookeeper, and EC2
- Reconfigured Helm charts to deploy applications improving scalability and reducing deployment time by 40%
- Modernized brokers by integrating Flask APScheduler across applications to handle microservice cache rendering

DEFENSE INTELLIGENCE AGENCY   **Troy, NY**
Site Reliability Engineer Intern   **August 2022 – December 2022**
- Assisted in the coordination of an infrastructure optimization for the US Strategic Command's progressive web applications and ongoing agency-wide bundled software utilizing Red Hat OpenShift4, Docker, and Helm
- Containerized Python scripts into packages allowing for seamless project integration and code maintainability
- Developed Bash scripts to streamline developmental environment setup processes and repository code transfers
- Designed and implemented 250 Python test files meeting a code coverage of 87% automated by a Bash script
- Established an interactive platform built in Flask to migrate 50+ TB of data from Elasticsearch5 to Elasticsearch7

DEFENSE INTELLIGENCE AGENCY   **Washington, DC**
Software Engineer Intern   **June 2022 – August 2022**
- Responsible for the dissociation of a DEEA contract saving $30,000 monthly by improving deployment readiness

EDUCATION

Rensselaer Polytechnic Institute   **B.S., Computer Science**

TECHNICAL PROFICIENCY

Languages: Python, TypeScript, JavaScript, Ruby, Java, and Bash

Other: Docker, Redis, Kafka, NiFi, OpenSearch, Jenkins, AWS CDK, and Git