Shukdev Sharma

927 West Forest Meadows St., Flagstaff, Arizona 86001
928-666-0547 shukdev.nau@gmail.com linkedin.com/in/shukdev github.com/shukdev

Education

Northern Arizona University **Aug. 2024 – Present**
Master of Science in Computer Science *Flagstaff, Arizona*

Chandigarh University **Aug. 2018 – May 2022**
Bachelor of Science in Computer Science *Mohali, Punjab*

Relevant Coursework

- Data Structures
- Software Methodology
- Algorithms Analysis
- Database Management
- Artificial Intelligence
- Internet Technology
- Systems Programming
- Computer Architecture

Experience

Cognizant Technology Solutions **Jun. 2022 – Aug. 2024**
Cloud Data Engineer *Bengaluru, Karnataka*

- Developed 10+ scalable interfaces (Python, AWS, REST APIs) for event management, reimbursements, and real-time integrations, achieving 100% automation and saving 200+ hours/year.
- Enhanced ETL pipelines (Talend, Snowflake, AWS), reducing processing time by 30%. Migrated 10TB+ SQL Server data to Snowflake, enabling 4× faster queries and 90% faster ingestion with zero downtime.
- Designed and deployed serverless data pipeline (AWS Lambda, Glue, Kinesis) processing 10K+ events/sec with <500ms latency, enabling real-time sync and improving performance by 25% while cutting costs by $18K/year.
- Optimized cloud infrastructure, cutting costs by 25% through rightsizing 50+ EC2 instances, auto-scaling 10+ workloads, and optimizing Snowflake storage, saving $25K annually while maintaining 99.9% uptime.

Cognizant Technology Solutions **Jan. 2022 – Jun. 2022**
Software Engineer Intern *Bengaluru, Karnataka*

- Refactored legacy Java app, modularizing file I/O and adding Redis caching, reducing latency by 94% (2.1s → 0.12s) and code complexity by 40% (SonarQube). Improved readability, cutting the debugging time by 30%
- Built a query builder (Spring Boot, Angular, Livy) enabling SQL-like access to 10M+ MongoDB tables. Optimized Spark orchestration, cutting query latency by 72% (14s → 4s) and speeding up transaction data access 3× for 200+ users.
- Consolidated 150+ REST APIs into a single event-driven pipeline, halving deployment cycles (4 weeks → 2 weeks), scaling throughput to 5K transactions/sec, and improving data freshness SLA from 2 hours to <1 minute.
- Optimized a Java billing QA app, restructuring redundant file I/O and adding in-memory caching, boosting efficiency and minimizing latency for real-time processing

Intel Corporation **May 2021 – Aug. 2021**
Performance Engineer Intern *Bengaluru, Karnataka*

- Developed and executed performance testing strategies for Intel's Chromebook series chipsets, running 50+ test scenarios to assess efficiency and reliability. Used Sysbench and Geekbench for benchmarking and test optimization.
- Identified and analyzed performance bottlenecks, improving CPU and memory efficiency by 15% using profiling tools like Perf, VTune, and Ftrace. Conducted extensive stress testing to ensure stability under high-load conditions.
- Collaborated with cross-functional teams to debug performance issues and document test reports. Presented key findings to stakeholders, contributing to a 10% reduction in power consumption.

Technical Skills

Languages: Python, Java, C#, C/C++, HTML/CSS, JavaScript, SQL, PL/Sql, GraphQL
Databases: MYSQL, MongoDB, Oracle, Microsoft SQL Server, Snowflake
Cloud & DevOps: AWS, Azure, Terraform, Jenkins, CI/CD, Docker, Kubernetes, Git, Github, GitLab
Technologies/Frameworks: Linux, Jenkins, GitHub, JUnit, Spring Boot, TensorFlow, Angular

Leadership / Extracurricular

Teaching Assistant – Data Structures & Python **Spring 2025 – Present**
Graduate Student *Northern Arizora University*

- Assisted students in understanding algorithms, data structures, and Python programming through discussions and problem-solving sessions.
- Provided one-on-one mentorship, debugging assistance, and feedback, improving student problem-solving skills.
- Graded assignments and evaluated coding projects, ensuring adherence to best coding practices and efficiency.