

Akansha Gupta

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OBJECTIVE

FullStack/Backend Software Engineer position in a leading technology company to utilize my strong programming and design skills.

EDUCATION

Northeastern University, Seattle (WA) - Master of science – Information Systems (GPA: 3.8/4.0)

Dec 2023

Courses: Program Structure and Algorithm, Network Structure and Cloud Computing, Object Oriented Design, Concurrent Programming, Agile Software Development, Database Management System, Advance Big-Data Applications and Indexing Techniques, Natural Language Processing, Web Design, Data Science with Python, Application Engineering and Development.

RGPV, Indore - Bachelor of Engineering in Computer Science and Engineering, First class with Distinction

June 2015

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, Kotlin, JavaScript, Bash Scripting

Frameworks and Libraries: Spring Boot, Kafka, RabbitMQ, OAuth, JSON, Microservices, Junit, Pandas, numpy

Cloud services/OS: AWS, Azure, Pulumi, Terraform, Linux, AWS CloudFormation

Web Technologies: HTML5, CSS, React JS, Node JS, Flask, Ajax, jQuery, Bootstrap, SOAP, GraphQL, RESTful Web Services

Storage: AWS S3, AWS DynamoDB, RDS, MYSQL, PLSQL, Oracle DB, CockroachDB, Redis, Elastic Search, DuckDb, Hadoop, Hive

Tools: Docker, Kubernetes, Git, GitHub, GitHub Actions, Maven, Jira, Jenkins, AWS console, Kibana, Grafana, Prometheus, Figma

WORK EXPERIENCE ~5 Years

Vizient Inc, Seattle, Washington (USA)

June 2023-Aug 2023

Software Engineer Intern, Project: Big Data Platform

- Created and implemented a versatile and scalable ETL platform for onboarding new healthcare clients with unique use cases not supported by the existing infrastructure. Additionally, successfully migrated one client, resulting in an impressive 80% reduction in data processing latency.

Northeastern University, Seattle, Washington (USA)

Jan 2023-April 2023

Graduate Teaching Assistant

- Assisted in a *Program Structure and Algorithm* class with 45 students by addressing questions and grading exams. **The Coursework was taken from T.H. Cormen.**
- Assisted in a *Network Structure and Cloud Computing* class with 30 students in implementing a scalable E-commerce website on AWS. Incorporated VPC, EC2 instances, load balancing, auto-scaling, S3, RDS, Route 53, and security. Evaluated project stages and addressed students' queries and concerns.

Infosys Limited, Pune, India ~3 years

April 2019-Jan 2021

Technology Analyst, Project: Customer Onboarding, Decisioning and Provisioning (10x Banking)

- Took on a leadership role** within a team dedicated to customer data management, background verification, fraud detection, and anomaly resolution. Contributed to the development of backend services using Spring MVC, Kubernetes, and AWS.
- Achieved a **20% increase in data accuracy, a 15% reduction in false positives, and a 30% decrease in anomaly resolution time**, contributing significantly to the overall success of the team.

Senior Systems Engineer, Project: Electronic Bill of Lading (Conagra Brands)

Apr 2018-Mar 2019

- Designed, implemented, and deployed a distributed state management system for the Bill of lading, **reducing paper usage by 90%** and contributed to a **cost savings of ~900k dollars annually**.

Zensar Technologies, Pune, India ~2 years

Jan 2016-March 2018

Software Engineer, Project: Code Review tool (Cisco)

- Involved in each phase of SDLC, transformed Soap-based services into Java/Spring Boot Restful Web Services, resulting in a **60% latency improvement**.

ACADEMIC PROJECTS

[Event Notification Service](#) (Individual Project – Java, Rest Api, Spring Boot, AWS, HashiCorp Packer)

- Developed a microservice-based event subscription system on AWS with GitHub actions for CI/CD, leveraging AWS services like CFN, EC2, VPC, Packer (AMI), RDS, DynamoDB, S3, SNS, and AWS Lambda for pub-sub functionality.

[Catalog search application](#) (Individual Project – Java, Rest Api, Spring Boot, Redis, Elastic Search, Kibana, OAuth)

- Designed and implemented a scalable Restful API that validates JSON input, securely stores data in Redis, and provides search functionality using Elasticsearch and GraphQL. Incorporated OAuth for token verification and ETag for client validation.

[Peer to Peer File Sharing- BitTorrent](#) (Group Project – Java)

- Implemented P2P protocol for file distribution using choking - unchoking mechanism, Java multithreading and networking libraries.