

# AGASTYA SINGH

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## PROFILE SUMMARY

Backend SDE with experience in building scalable systems, RESTf APIs, and automated ETL pipelines. Expertise in Java, Spring Boot, Python, AWS cloud, and database optimization. Proven track record of reducing manual processes by 40 % through automation and improving system performance by 15%. Strong experience in data engineering with Snowflake, and DevOps practices with Docker and CI/CD.

## EXPERIENCE

- Niine Pvt. Ltd - Data Engineer** October 2024 — Present
- Built a report automation portal from scratch, Spring Boot Controller/Service layer for data validation & real-time status tracking, AWS Lambda (Python) for further processing, Snowflake & S3 for data warehousing, file storage & event triggers. Front-end in Angular implementing Polling (RxJS) for rendering real-time updates, Tailwind (CSS).
  - Built Spring Boot microservice implementing RSA-encrypted authentication and JWT-based session handling, enabling secure data exchange between internal modules and external APIs (SAP, Salescode).
  - Deployed and monitored Python & systemd scripts on AWS EC2 with robust error-handling and logging, reducing failure rates by 15 %. Orchestrated system-design discussions and managed partial cloud migration.

- CargoFlash Infotech - Junior Software Developer** Feb 2024 — Oct 2024
- Implemented 2FA via Keycloak and optimized caching strategies using Redis.
  - Built REST API's in .NET, scalable design, & contributed minor feature updates.
  - R&D on scalable system architecture to support future logistics applications based on IATA One Record API & its implementation in existing .NET 5 legacy systems.

## PROJECTS:

### Net Banking App for daily finance management — [LINK](#) — [GitHub Link](#)

Built Banking Application in Spring Boot, managing \$1M simulated transactions; utilized Caffeine caching and Spring Transactions for ACID compliance, minimizing errors to 0.1%.

Incorporated Logback auditing and cron jobs for statements; added 2FA with Spring Security & Google OIDC, strengthening fraud prevention.

Integrated currency APIs and blockchain sim, supporting multi-currency; delivered 95% audit accuracy, positioning as fintech innovator.

## PUBLICATION:

### Load Balancing Approach Using Binary Search: Springer — [LINK](#)

Published a research paper in Fifth International Conference on Computing, Communications, and Cyber-Security (IC4S 2023)

## TECHNICAL SKILLS

- **Languages:** Java, SQL, Python
- **Frameworks/Tools:** Spring Boot, .NET, Angular, Kafka, JPA, Hibernate
- **Cloud & DevOps:** AWS (EC2, S3, Lambda), Linux, Redis, Docker, CI/CD, SAML 2.0, ETL pipelines
- **Databases:** Snowflake, MySQL, NoSQL (basic)
- **Methodologies:** Microservices, Agile, TDD, SDLC

## **EDUCATION**

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**B.Tech - CSE** (Manav Rachna University, Faridabad): CGPA-7.9

2020 - 2024

**Senior Secondary (12th)** (Bal Bharti School, Bahadurgarh): Percentage- 84.2%

2019