Gagandeep Singh Bhambrah

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Senior Development Engineer

Backend Engineer with 4 years of experience building and operating cloud-native SaaS systems using Java (8–17), Go, and AWS, with hands-on ownership of distributed microservices, APIs, and production reliability at scale.

Education

- **GIET University** — Odisha, India
  Bachelor of Technology - Computer Science and Engineering; GPA: 8.2 — *July 2016 - June 2020*
  Courses: *Information Security, Cloud Security, Operating Systems, Data Structures, Analysis Of Algorithms, Networking, Databases*

Skills Summary

- **Languages**: Java (8–17), Go (Golang), SQL, Python
- **Frameworks**: Quarkus, Spring, Django
- **Standards**: REST, gRPC, WebSockets
- **Databases**: PostgreSQL, DynamoDB, Redis
- **Tools**: Docker, Git, GitHub Actions, Make
- **Platforms**: AWS (Lambda, S3, SQS, CloudFormation), Linux

Experience

- **Calsoft Inc.** — Pune
  Senior Development Engineer (Full-time) — *Sept 2024 - Present*
  - **Interim Lead**: Led a team of 3 for feature development as interim technical lead.
  - **Optimization**: Optimized SQL query performance by over 80% with strategic indexing and optimized join operations.
  - **Refactor and Code Cleanup**: Created a generic repository framework for DynamoDB with a custom ORM style query mechanism improving code quality, Intellisense and developer experience.
  - **Inter-Service Architecture Optimization**: Improved microservice and serverless communication, replacing looping calls and improving performance by over 40% and eliminating cascading timeouts under heavy loads.
  - **Credential Encryption At Rest**: Improved security by adding mechanisms for encrypting DB tables at rest using tenant specific keys.
- **Calsoft Inc.** — Pune
  Development Engineer (Full-time) — *July 2023 - Sept 2024*
  - **Implemented SAGA Patterns**: Implemented SAGA patterns allowing service level atomic operations, making the application robust.
  - **Removed Dependency on paid software**: Replaced paid software using creative workarounds, saving over $500 a month, in development costs.
  - **Resolved Bottlenecks**: Identified and resolved bottlenecks in different services like bulk schedules, reducing request failures from 80% to 20%.
  - **Resolved Production issues**: Resolved 15+ high priority production incidents, stabilizing deployments and reducing downtime during high-traffic releases.
  - **Improved Event Processing**: Improved event processing mechanisms to be horizontally scalable, improving performance from 60 events per min in total to over 200 per min per instance, even under heavy loads.
- **Calsoft Inc.** — Pune
  Software Development Intern (Full-time) — *July 2022 - July 2023*
  - **Snap-Start**: Implemented Snap Start, improving Lambda cold starts by 70%.
  - **Lambda Keep Alive**: Analyzed AWS Lambda life cycles and added keep alive mechanisms to avoid 504 errors on first invocation after 14 day dormancy.
- **Rethink UX** — Remote
  Software Developer Intern(Full Time) — *Aug 2021 - Jan 2022*
  - **Data Scraping**: Scraped over 60 GB of data from over 25 sites to be used for Marketing purposes.
  - **Commondove**: Implemented wallets, referrals, rewards, orders, etc, E-commerce features and integrated Razorpay for payments.
  - **Crove**: Created log ingestion and cataloging tool and custom parser and exporter for .docx files to slateJS.

Honors and Awards

- Rising Star Award - Sept, 2025
- Star Employee Award - May, 2024
- Hacktoberfest 2022 - Nov, 2022
- Facilitation for GIET All in One App. - Aug, 2021