Chandan Gowda K S

Software Engineer | 4+ years production experience | MS CS @ Northeastern (3.89 GPA) | Python, Java, AWS, ML
+1 (857) 421-7469; chandan.keelara@gmail.com; LinkedIn; Portfolio; GitHub;
Available for 2026 Co-op (January - December 2026)

Software Engineering Professional with 4+ years developing production-scale microservices and AWS serverless architectures at London Stock Exchange Group. Proven expertise in event-driven systems, distributed computing, and cloud infrastructure optimization. MS Computer Science candidate (3.89 GPA) bringing enterprise-proven cloud engineering expertise to 2026 Software Engineering Co-op.

ACADEMIC QUALIFICATIONS

MS in Computer Science**, Northeastern University**, Boston, MA ***01-2025 to 05-2027***
CGPA**:** 3.89/4
BE in Computer Science**, Nitte Meenakshi Institute of Technology** (NMIT), Bengaluru ***08-2016 to 08-2020***
CGPA**:** 8.76/10

TECHNICAL SKILLS

Programming Languages**:** Python (4+ years), Java (3+ years), JavaScript, TypeScript, C++, C#, Go.
Cloud & Infra: AWS (Lambda, SQS, API Gateway, CloudWatch), Event-Driven Systems, Distributed Systems, Serverless Computing
Development & DevOps: Terraform, Kubernetes, Docker, Linux/Unix Systems, RESTful API Development, Git, CI/CD Pipelines.
Database & Data Processing: MySQL, NoSQL, ETL Pipelines, Batch Processing, Data Migration, Query Optimization.
Frameworks & Tools: Spring Boot, Micronaut, Django, Web Development, React, Machine Learning, TensorFlow, Pandas, NumPy.
Development Practices: Performance Optimization, System Design, Data Structures & Algorithms, Concurrent Programming, Agile/Scrum.

WORK EXPERIENCE

Senior Software Engineer, **London Stock Exchange Group (LSEG), Bengaluru** ***08-2022 to 12-2024***

- Engineered an event-driven pipeline serving 180+ countries that transformed **7.5M+ XML** compliance records into standardized JSON at **40 records/second**, ensuring 99.9% data integrity and compatibility for downstream microservices.
- Architected a multi-queue priority routing framework in **Python** with **AWS SQS and Lambda**, enabling differentiated handling of high-priority KYC/AML screening updates and improving turnaround time for high-priority cases by **35%**.
- Developed scalable microservices in **Java Micronaut**, deployed on **AWS Lambda** with **API Gateway**, to provide low-latency CRUD operations, version management, and workflow integrations for risk-screening data.
- Enhanced performance of Lambda-based APIs by tuning **batch processing** and optimizing cold-start handling through CloudWatch monitoring, reducing end-to-end request **latency by 40%** and supporting sustained throughput under large-scale batch loads.
- Hardened system security by integrating AWS WAF, IAM-based secret rotation, and TLS communication across services, lowering **security-related incidents by 50%.**
- Mentored a team of **5 junior engineers** and guided teammates through design discussions, code reviews, and knowledge-sharing sessions while coordinating with **7 cross-functional** teams to ensure data flow migration with zero downtime.

Senior Systems Engineer, **Infosys, Bengaluru** ***10-2020 to 07-2022***

- Engineered high-throughput Python data processing pipelines with concurrent execution capabilities, optimizing batch processing strategies to achieve 3x throughput improvement through efficient resource management and parallel task execution.
- Designed **microservices integration** patterns and API orchestration layers, enabling dynamic workflow composition and reducing manual system interventions by 50% through automated service discovery and **inter-process** communication.
- Optimized database query performance and ETL pipeline efficiency through strategic indexing and batch processing optimization, reducing data processing latency by 35% for high-volume enterprise workloads
- Developed comprehensive monitoring, scheduling, and error-handling frameworks with real-time failure detection, implementing automated retry mechanisms and failure routing that improved data extraction accuracy by 20%.

PROJECTS

Dino Game Deep RL Agent| *Python, CNN, Deep Reinforcement Learning, Computer Vision* | GitHub
Developed an autonomous AI agent using Double Deep Q-Network (DDQN) with ResNet architecture (1.5M parameters) to master Chrome's Dino game through deep reinforcement learning. Engineered automated training pipeline with balanced experience replay, 4-frame stacking for temporal information, and real-time decision-making at 16.67 FPS, demonstrating expertise in neural network optimization, Machine Learning, Artificial Intelligence, computer vision preprocessing, and production-ready RL systems.
Orion PaaS | *Go, Kubernetes, Operator SDK, Docker* | GitHub
Architected cloud-native Platform-as-a-Service with custom Kubernetes operator enabling single-command application deployment across multiple environments. Implemented automated resource provisioning, scaling policies, and health monitoring, demonstrating production-grade distributed system design and infrastructure-as-code practices.
Maritime Logistics Platform | *Django, MySQL, SQL Algorithms, JavaScript* | GitHub
Developed full-stack port management system implementing Dijkstra's path-finding algorithm in SQL stored procedures for optimal route calculation. Built role-based authentication (Admin/Shipper/Customer), RESTful API layer, and complex relational database schema supporting multi-tenant operations.

ACHIEVEMENTS AND CERTIFICATIONS

- Earned AWS Certified Cloud Practitioner certification, validated expertise in AWS cloud architecture, security, and core services.
- Published a paper in IEEE: "Doctor-Patient Assistance System using Artificial Intelligence.", Architected end-to-end AI architecture combining natural language processing with TensorFlow-based diagnostic models.