

Clint Johnson

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PROFESSIONAL SUMMARY

Experienced software engineer with over 5 years of experience leading dynamic, cross-functional teams in developing enterprise-grade distributed systems and driving agile practices in Banking and Fintech. Specialised in architecting and delivering event-driven, secure, and observable microservice-based cloud-native solutions. Currently pursuing a Master's degree in Artificial Intelligence to leverage expertise in creating next-generation AI-driven software.

RELEVANT EXPERIENCE

11/2020 – 08/2023
Bangalore

Deloitte
Software Engineer III (Tech Lead)
Converge Prosperity BankingSuite (Digital Bank)

- Led a 4-member pod in the development and successful delivery of **key banking components** and **financial services integrations** such as card payments, onboarding, KYC, accounts, funding, servicing, and core banking integrations.
- Collaborated with the product team to prioritise requirements, planned **integration architecture** with vendors, **estimated** development efforts, performed **code reviews** and provided support throughout the **development lifecycle** to QA and DevOps teams.
- Designed **solution architecture** for onboarding and card payments from business requirements based on **BIAN (Banking Industry Architecture Network) standards**, ensuring interoperability and banking industry best practices. Produced regulatory-compliant OpenAPI specifications, C4 models, data models, and sequence diagrams. Successfully navigated architecture reviews and secured sign-offs from senior architects.
- Owned the customer onboarding journey end to end. Implemented a business process-driven **microservice orchestration** for using BPMN, Camunda for workflow automation, DMN for decision management, and Spring for microservices, enabling integration of business rules, regulations and logic across distributed systems.
- Built and maintained a Java-based, vendor-agnostic **distributed tracing** library with configurable log formatting and masking. Deployed an OpenTelemetry collector in the Kubernetes cluster to collect traces from instrumented Spring applications and Istio Envoy proxies, exporting data to the Datadog observability and monitoring platform. Integrated the solution across **100+** microservices, and later extended to **18** other Converge products, supercharging **developer productivity** and the platform's **observability** and debugging capabilities.
- Developed and delivered an **ML-driven** proof-of-concept within a 2-month timeframe to streamline EOB (Explanation of Benefits) document processing. Implemented a serverless solution with AWS Lambda functions, MSK (Kafka), DynamoDB, and Amazon Textract (OCR) to expedite development and deployment. The solution matched scanned documents with client checks, enhancing payment processing efficiency.
- Delivered an **event-driven** solution to integrate card payments using Marqeta (Card issuing) and Thought Machine (core banking).
- Refactored existing **authentication** components to use Secure Remote Password protocol and MFA with AWS Cognito as IAM, mitigating the risks of server-side leaks and man-in-the-middle attacks.

01/2019 – 10/2020
Bangalore

Dell Technologies
Software Engineer

- Led a two-member team in designing and implementing an **automation** pipeline for monitoring and reconciling Dell's B2B client purchase orders. The system flags unprocessed or partially processed orders and generates weekly email reports, saving approximately **125** hours per week in manual labour for the sales team.
- Developed and deployed **Spring-based RESTful microservices** following **Test Driven Development** for Dell's internal mobile applications, including VApprove (manager approvals), HelpServiceNow (HR service delivery), and Engage (team meetings).
- Performed **code reviews** and produced quality technical **documentation**, ensuring adherence to engineering best practices and project standards.

AWARDS & INVOLVEMENT

- Four-time recipient of the **Spot Excellence Award** at Deloitte for exceptional contribution.
- Conducted **70+** coding tests and system design interviews at Deloitte.
- **Mentor** in the Performance Improvement Programme at Deloitte; created training modules and provided guidance to junior developers.

EDUCATION

09/2023-09/2024 Manchester	The University of Manchester MSc Advanced Computer Science, Artificial Intelligence <i>Expected Distinction</i> Thesis: A Novel Approach to Stock Trading Using Group-Agent Deep Reinforcement Learning Proposed and implemented a novel group-agent reinforcement learning based trading strategy for the US stock market using PyTorch, backtested and evaluated performance against traditional machine learning and deep reinforcement learning based trading strategies.
05/2015-05/2019 Noida	Shiv Nadar University Bachelor of Technology in Computer Science, Minor in Mathematics 8.79/10 CGPA

SKILLS

Expertise: Event-driven architecture, Microservices, Orchestration, REST, Reinforcement Learning
Programming Languages: Java 17, Python, JavaScript
Backend: Linux, Spring Framework, Kafka, PostgreSQL, NoSQL, Redis, Camunda, Junit, Mockito
AI/ML: PyTorch, Keras
Cloud: AWS, GCP
DevOps: Docker, Kubernetes, Jenkins (CI/CD), Terraform (IAC), Istio (Service Mesh), Datadog
Other: Git, Agile, Jira, Confluence, UML, BPMN, DMN, C4 Model
Languages: Professional fluency in English (IELTS 8.0), Hindi

ADDITIONAL EXPERIENCE

11/2023 – 05/2024 Manchester	Anumana Code Academy Volunteer, Python Tutor Trained 10 middle school students in Python programming, fostering problem-solving skills and critical thinking skills.
04/2018 – 07/2018 Hyderabad	Centre for Analytical Finance, ISB Data Science Research Intern <ul style="list-style-type: none"> • Developed algorithmic trading strategies in Python based on fundamental and technical analyses such as time series analysis, pairs trading, and Piotroski's F-Score. Backtested the strategies on stocks and futures markets, with pairs trading in particular outperforming major indices and delivering a consistent 27% higher annual average return, even in bearish markets.