

# Cyprien Dcunha

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## Experience

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**Salesforce.com** Nov 2025 – Present  
*Senior Software Engineer (Hyperforce Infra)* Hyderabad

- Engineered a multi-substrate, provider-agnostic infrastructure to extend 4 Core & Platform Tier 1 services from native AWS to GCP infra, mitigating vendor lock-in under strict data-residency and governance laws.
- Developed a developer productivity platform utilizing AI, MCPs, and plugins, etc. to automate SDLC practices, accelerating pre-merge pull request cycles by 50% while dropping on-call incident isolation times by 5x.

**Amazon** Dec 2021 – Nov 2025  
*Software Development Engineer 2 (Finance Automation)* Hyderabad

- Drove VendorHoldbacks re-architecture from monolith to 11 microservices, leading a team of 3 developers, enabling 6M transactions (worth \$2.1B) at 2000 TPS. Transformed batch processing to event-driven architecture, slashing processing time from 24h to near real-time and reducing vendor inquiries by 23.5% across 14+ countries.
- Designed and developed an LLM-driven Financial Reconciliation Engine processing up to 10M records per day, accelerating anomaly detection and reducing manual work by 65%. Utilized RAG against historical customer notes and LLM-based semantic mapping to achieve a recon accuracy of 67%.
- Architected a high-throughput Rule Engine processing 5,000+ concurrent business rules (50ms latency, 2,000 TPS). Introduced self-service portal cutting rule creation time from 4 weeks to minutes, incorporating versatile business logic via Drools framework.
- Conducted over 1,100 code reviews and championed technical design reviews, providing architecture feedback to enhance scalability, maintainability, and eliminate potential anti-patterns across teams.
- Successfully delivered multiple projects that enhanced vendor experience by owning high and low level design and implementation, also leading to a decrease in Amazon's debit balance by up to \$68MM.
- Spearheaded roadmap planning and strategic prioritization by advising senior leadership on technical feasibility, engineering complexity, and goal setting for future deliverables.

**Amazon** May 2019 – Dec 2021  
*Software Development Engineer 1 (Finance Automation)* Hyderabad

- Developed ML-driven automated holdback system preventing \$14.7MM in debit balance exposure. Built scalable pipeline processing 90,000+ vendors' historical data with configurable risk engine using linear regression for seasonal patterns, eliminating manual assessment for 3,600+ high-risk vendors during peak events.
- Implemented a data segregation system for special merchants, restricting data access across over 20 input sources and ensuring merchant-specific information security.
- Slashed support tickets from 1200+ (2020) to under 20 (2022) through systematic issue resolution. Established robust on-call processes for high-severity incidents, significantly reducing operational load.

## Education

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**Dwarkadas J. Sanghvi College of Engineering** Jun 2015 – May 2019  
*Bachelor of Engineering, Computer Science (CGPA: 9.08 / 10)* Mumbai

## Awards and Recognitions

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- Earned Amazon SDE Recognition Awards (2022, 2024 & 2025) for consistently raising the engineering bar.
- Finalist in Amazon FinAuto Hackathon 2024 for developing IDE tooling for AWS Step Functions development.
- Winner of IBM's Call for Code Challenge at AngelHack, securing \$1,000 prize.
- Secured 3rd place and \$1,100 prize in TopCoder Development Challenge.

## Technical Skills

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**Languages & Core:** Python, Java, C++, JavaScript, TypeScript, MySQL, Data Structures, Algorithms, CI/CD

**AWS & Cloud:** Lambda, ECS, Step Functions, EventBridge, SQS/SNS, Cloud SQL, GKE, DynamoDB, RDS, S3, Redshift

**Frameworks & Tools:** Docker, Kubernetes, Jenkins, Spinnaker, Guice, Dagger, Spring, JUnit, Gradle, NumPy, Pandas

**Gen-AI:** LLMs, Agent Skills, Prompt Engineering, AWS Bedrock, AWS AgentCore, RAG, PyTorch, LangChain

**Architecture:** Distributed Systems, Agentic Systems, Microservices, Event-Driven, Domain-Driven, REST APIs