Anant Parashar

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SUMMARY

Software Engineer | Python | GenAI | Blockchain | Cloud
Software Engineer with 2+ years of experience in AI-driven platforms, backend development, and blockchain wallet integrations. Skilled in Python, serverless microservices, and secure transaction systems. **Engineered scalable APIs, blockchain SDKs, and AWS deployments achieving 98.7% uptime, 100K+ transactions, and sub-3s latency.**

WORK EXPERIENCE

Software Engineer (Python / GenAI / Blockchain)   Aug 2023 – Present
Idemia   *Noida, India*

- Engineered blockchain SDKs and secure signing flows for Bitcoin Cash, Litecoin, Kaspa, Near, Stellar, TON, Cardano, and Dogecoin; integrated APDU communication with Idemia FCode Gen2 smartcards.
- Spearheaded BIOPAY Android + GenAI payment platform enabling biometric authentication <3s with 99.8% accuracy and 98.7% uptime; embedded RAG assistant (LangChain, LangGraph, Python) cutting agent handoffs by 40%. **Shining Star Award**.
- Designed and implemented Python-based CBDC simulator to mirror minting, peer-to-peer exchange, and settlement; reduced QA cycles by 80–90% and accelerated pilot readiness. **Team Award**.
- Architected AWS Lambda services (Python, API Gateway, DynamoDB, S3, CloudWatch) with async APIs, schema validation, and comprehensive observability dashboards.
- Optimized blockchain RPC connectivity with load balancing and fallbacks, reducing transaction failures by 25%.
- Integrated biometric SDK with multi-factor authentication (MFA), strengthening compliance with RBI security guidelines.
- Automated performance monitoring in CloudWatch/Grafana, lowering mean-time-to-detect (MTTD) by 45%.
- Orchestrated collaboration across backend, blockchain, and mobile teams, delivering 100% of pilot milestones on time.

EDUCATION

JSS Academy of Technical Education   Jul 2019 – Jun 2023
B.Tech, Electronics and Communication Engineering | CGPA: 8.02/10   *Noida, UP*
Relevant Coursework: Data Structures & Algorithms, Cryptography, Computer Networks, DBMS, Operating Systems

PROJECTS

BIOPAY GenAI Payment Platform   Enterprise Project at Idemia

- Engineered biometric payment solution supporting real-time payments <3s and 99.8% match accuracy.
- Implemented RAG-based GenAI assistant using LangChain & LangGraph; reduced escalations by 40%.
- Deployed on AWS serverless stack (Lambda, API Gateway, Cognito, DynamoDB, S3, CloudWatch); processed 100K+ transactions with <0.5% failure.
- Redesigned DynamoDB data model, trimming query latency by 30% for high-frequency biometric transactions.

CBDC Applet Simulator   Enterprise Project at Idemia

- Created Python simulator replicating CBDC lifecycle (minting, peer-to-peer exchange, settlement) with APDU signing logic; accelerated QA by 75% and enabled hardware-free validation.

Blockchain Wallet Integrations   Enterprise Project at Idemia

- Implemented hardware-backed signing for Bitcoin Cash, Litecoin, Kaspa, Near, Stellar, TON, Cardano, and Dogecoin; ensured RPC resilience with retries/fallbacks.
- Engineered serverless API leveraging AWS Lambda + API Gateway to deliver blockchain data services handling 5000+ daily requests with 99.9% uptime.

TECHNICAL SKILLS

Languages: **Python**, Java, Kotlin, JavaScript/TypeScript (Node.js), SQL (PostgreSQL, MySQL), C++
AI/GenAI: LangChain, LangGraph, RAG, embeddings, rerankers, prompt engineering, agent workflows
Backend: FastAPI, Flask, REST APIs, Async IO, Pydantic, OpenAPI, Webhooks
Cloud/DevOps: AWS (Lambda, EC2, API Gateway, DynamoDB, S3, CloudWatch, Cognito), Docker, Jenkins, GitHub Actions, CI/CD
Blockchain: Bitcoin Cash, Litecoin, Kaspa, Near Protocol, Stellar, TON, Cardano, Dogecoin; CBOR, BOC, RPC APIs
Security/Hardware: Idemia FCode Gen2, APDU command signing, smartcard cryptography
Testing & Data: Data Structures & Algorithms, PyTest, unittest, JUnit, TDD, logging/metrics/alerts
Tools: Git, Gradle, VS Code, Postman, Charles Proxy