Gaurav D. Kale

U.S. Citizen | kalegauravd@gmail.com | LinkedIn | Willing to Relocate

Former Amazon engineer and founder with 10+ years of building scalable production systems across fintech, voice-assistant, and 3D web domains.

Programming languages: JavaScript, Go, Java, Scala, Python, Dart
AWS: EC2, ECS, ELB, RDS, DynamoDB, SQS, SNS, CloudFront, S3, Lambda, API Gateway + WebSockets, CloudWatch
Interpersonal: Mentorship, cross-functional collaboration, investor engagement
Other: AI orchestration, Serverless Architecture, Event Driven Architecture, REST API, CDK, CI/CD, Apache Spark

PROFESSIONAL EXPERIENCE

His Majesty's Secretariat (Kingdom of Bhutan) Jan 2026 - Present
Lead Engineer

- Led seven engineers across three workstreams covering trading infrastructure, KYC/AML systems and AWS infrastructure modernization.
- Assumed ownership of the TER gold trading platform in Go three months before launch, designing fault-tolerant payment and inventory workflows with idempotent processing, operational recovery procedures, and reconciliation across banking and external trading systems.
- Architected and led development of the in-house KYC/AML solutions, including customer risk rating and transaction monitoring, in Python.
- Cut AWS compute costs 50% (~$100k/year) by moving from EC2 infrastructure to ECS on Fargate.
- Eliminated manual deployments by introducing AWS CDK and GitHub Actions, freeing DevOps team bandwidth to focus on higher-priority infrastructure work.
- Ran workshops and mentoring sessions to help upskill the local Bhutanese engineers.

Universal Verify / Digital Bacon April 2022 - Present
Founder & Solo Engineer

- Currently building Roca, a privacy-first local AI assistant for spreadsheet workflows, including local-model inference, agent orchestration, and workflow state management.
- Designed an evaluation harness for testing agent behavior and workflow correctness across different underlying LLMs and changes to the routing logic and workflows.
- Designed and built a real-time multi-user 3D website editor supporting PC, mobile, and VR using three.js, WebRTC, and WebSockets used by tens of thousands of users.
- Built a 3D web hosting platform with real-time usage metering for cost-efficient billing.
- Designed and shipped an ID verification platform meeting GDPR data residency requirements.
- Contributed to open source ID verification for new digital id protocols like mDoc and OpenID4VP.

Amazon Aug 2020 - April 2022

Software Development Engineer II

- Developed and maintained the in-store assistant for Alexa Grocery Shopping, allowing customers to find specific items in Amazon Fresh stores with Alexa.
- Automated Alexa grocery store onboarding replacing a manual, multi-dependency process with scripts, validation tooling, and SOPs that cut engineer time spent by 90%.
- Tracked p95 and p99 latency across all incoming and outgoing requests, enabling the team to identify and respond to degradations quickly.
- Led migration of Alexa grocery infrastructure from old internal systems to AWS using ECS.
- Mentored interns and new hires with 1:1 sessions, quickly turning them into active contributors.

Random Access Software Oct 2018 - Aug 2020

Co-founder & Lead Engineer

- Developed mobile application No Excuses for iOS and Android using Flutter to empower accountability between users for good habit formation.
- Designed and implemented serverless backend using Python, AWS Lambda, API Gateway, and DynamoDB.

TaxToken LLC (now BlockSentry) Sept 2017 - July 2018

Co-founder & CTO

- Co-founded a cryptocurrency tax compliance startup, taking the product from inception to production in 5 months and contributing to $1M+ in early funding.
- Architected financial data ingestion and normalization pipelines across 10+ cryptocurrency exchanges, ensuring correctness of transaction data used for tax reporting.

Capital One July 2015 - Aug 2017

Software Engineer

- Built KYC/AML ETL pipelines using Scala, Spark, and Hadoop processing terabytes of financial compliance data.
- Helped onboard other teams to AWS using Terraform.

EDUCATION

Quantic School of Business and Technology Aug 2026 - Nov 2027 (Expected)

- M.S. in Artificial Intelligence Engineering

James Madison University Aug 2012 - May 2015

- B.S. in Computer Science, Minor in Mathematics
- Graduated in 3 years