Uchechukwu Ahunanya

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Senior backend engineer with production experience building Node.js and TypeScript workflows alongside Java services for fintech and financial systems. Experienced with payment reliability, wallet and transaction workflows, third-party integrations, idempotency, retries, reconciliation, REST APIs, cloud delivery, and production observability. Brings a practical approach to backend work where a request may be repeated, a provider may fail, or a balance must still be correct.

Node.js and Backend Competencies

- **Node.js and TypeScript**: Backend workflows, REST APIs, service integrations, asynchronous processing, WebSockets, and production monitoring
- **Payments and Financial Systems**: Apache Fineract, Mifos, savings, lending, bill payments, transaction processing, reconciliation, and auditability
- **Reliability Patterns**: Idempotency keys, retries, reconciliation, provider failure handling, data integrity, regression safeguards, and operational recovery
- **Data and Messaging**: PostgreSQL, MongoDB, Redis, MySQL, Kafka, RabbitMQ, Amazon SQS, Spark SQL, ETL, and relational data workflows
- **Cloud and Delivery**: AWS, GCP, Terraform, Kubernetes, Docker, Helm, GitHub Actions, GitLab CI, and Argo CD
- **Observability**: Prometheus, Grafana, OpenTelemetry, ELK Stack, Datadog, dashboards, monitoring, and production troubleshooting

Professional Experience

Checkoff **Remote contract**
Senior Backend Engineer (Java / Fintech) *November 2025-Present*

- Design and maintain Java services extending Apache Fineract for savings, loans, and transaction processing.
- Own payment services supporting bill payment and savings workflows, using idempotency keys to prevent duplicate payments and retry and reconciliation flows for pending or failed provider transactions.
- Work with finance and compliance stakeholders on data integrity, auditability, Apache Superset dashboards, and Spark SQL reporting pipelines.
- Provision AWS infrastructure with Terraform and maintain CI/CD and container deployments using Docker and Kubernetes.

Lybertine **United Kingdom, remote**
Senior Backend / Software Engineer *July 2025-July 2026*

- Contributed to backend service design, database architecture, integrations, and microservices platform decisions.
- Owned GitHub Actions and GitLab CI pipelines governing backend delivery.
- Introduced regression safeguards, expanded automated test coverage, and enforced UAT and acceptance validation.
- Authored engineering documentation and development guidelines for code quality, testing, and review.

Upfirst **Miami, Florida, remote**
Backend / Software Engineer II *February 2025-May 2025*

- Built Node.js and TypeScript workflows connecting customer configured AI agent actions to backend execution.
- Maintained backend services during active feature delivery and built monitoring and observability infrastructure for production services.

- **Periteleios** **USA, remote**
  Software Engineer II *April 2023-February 2025*
  - Built HQL and Athena SQL dialect compilers in Rascal MPL.
  - Built Java WebSocket infrastructure for Language Server Protocol communication with Python tooling.
  - Developed automated data transformation pipelines and reusable Terraform modules for AWS infrastructure.
- **Dedukt** **Lagos, Nigeria**
  Software Engineer *November 2021-April 2023*
  - Built a savings and transaction processing backend with Apache Fineract and Mifos, reducing operational workload by 30%.
  - Developed backend APIs and integration documentation for financial services workflows.
  - Implemented ETL pipelines to migrate loan data into a Loan Origination System.

Independent Projects

- **SeekMake**: SaaS platform for manufacturers to manage operations, customers, invoicing, and product timelines. Built full-stack services with TypeScript, Node.js, and React, including REST-oriented backend workflows, infrastructure provisioning, and CI/CD design.
- **WakeFlow**: Workflow automation project involving automated pipeline infrastructure and backend services.

Additional Technical Scope

- **Cloud**: AWS EC2, ECS, Lambda, S3, RDS, CloudWatch, IAM, GCP Cloud Run, GKE, and Firestore.
- **Infrastructure**: Terraform, Terragrunt, Ansible, Helm, Kubernetes, Docker, Docker Compose, EKS, and GKE.
- **Observability**: Prometheus, Grafana, OpenTelemetry, ELK Stack, Datadog, monitoring, and production troubleshooting.
- **Systems**: REST APIs, microservices, WebSockets, networking, PostgreSQL, MongoDB, Redis, Kafka, RabbitMQ, and ETL.

Selected Contributions

- Connected backend design, cloud infrastructure, delivery, observability, and production support.
- Designed financial workflows with explicit handling for duplicate requests, pending provider responses, and terminal failures.
- Built backend integrations that translate external service behavior into predictable internal states.
- Worked with finance and compliance stakeholders on data integrity, auditability, and reporting.
- Added regression safeguards and acceptance validation to reduce delivery risk across backend changes.
- Documented engineering practices and technical decisions for distributed teams.
- Built APIs and integrations for savings, lending, transaction processing, and loan data migration.
- Supported asynchronous processing through queues, workers, retries, scheduled jobs, and reconciliation flows.
- Used infrastructure as code and container delivery to keep backend deployments repeatable.
- Built monitoring and reporting support so technical and operational teams could investigate system behavior.
- Worked independently in remote teams while communicating clearly with technical and non technical stakeholders.

Languages and Certification

- English, fluent / native-level
- JavaScript Algorithms and Data Structures Certification

References

- Available upon request.