

AJITH KUMAR K

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PROFESSIONAL SUMMARY

Backend Engineer with ~2 years of experience building production-grade APIs, workflow automation systems, and cloud-integrated services. Delivered full-ownership backend work in a multi-tenant SaaS environment: designed and shipped a custom Form Builder platform, built fax routing and forwarding automation, re-architected MongoDB and DocumentDB aggregation pipelines, and maintained business-critical production systems. Core stack: Node.js, TypeScript, JavaScript, MongoDB, Amazon DocumentDB, and AWS (S3, SQS, SES, Lambda, CloudWatch, Secrets Manager). Python used for automation tooling.

TECHNICAL SKILLS

Languages:

TypeScript, JavaScript, Python

Backend:

Node.js, Express.js, Sails.js, REST APIs, OpenAPI / Swagger, Joi Validation

Databases:

MongoDB, Amazon DocumentDB, Aggregation Pipelines, Query Optimization, TypeORM

Cloud / AWS:

Amazon S3, SQS, SES, Lambda, CloudWatch, Secrets Manager, CodeBuild

Automation:

Workflow Orchestration, Queue-Based Processing, Cron Jobs, Batch Processing, Event-Driven Systems, AI-Assisted Development

DevOps:

GitHub Actions, Docker, CI/CD Pipelines, Kubernetes (supporting experience)

Testing:

pytest, Unit Testing, Mocking / Fixtures, CI Quality Gates

Operating Systems:

Linux (Ubuntu, Kubuntu, Linux Mint, Pop!_OS), Windows

Tools:

Git, GitHub, Jira, Confluence, Postman

PROFESSIONAL EXPERIENCE

Junior Software Developer — The Valor Solution

Jan 2025 – Present

- Co-designed and delivered a custom Form Builder platform to replace a third-party form subscription, building backend APIs for form creation, editing, submission processing, dynamic field validation, S3-backed document uploads, reporting endpoints, and queue-driven EMR integration workflows.
- Built fax routing and forwarding automation systems supporting business-hours-aware processing, manual and automated forwarding, retry handling, configurable routing rules, and external communication platform integrations.
- Re-architected patient reporting and dashboard data-access patterns through schema redesign, aggregation optimization, and query refactoring — eliminating full-collection scans and resolving index-unfriendly query patterns introduced during MongoDB to Amazon DocumentDB migration. Measured latency on the patient-list pipeline reduced from 26s to 19s.
- Designed and optimized MongoDB aggregation pipelines supporting patient dashboards, reporting systems, operational analytics, and document-processing workflows across large healthcare datasets.
- Built backend services integrating Amazon S3, SQS, SES, Lambda, CloudWatch, and Secrets Manager across workflow automation, notification systems, and document-processing solutions.
- Developed multi-tenant document management workflows on Amazon S3, including automated folder provisioning, facility-level storage organization, presigned URL access, and secure document lifecycle management.
- Re-engineered large-scale data processing workflows with paginated batch patterns, eliminating OOM failures and timeout errors on high-volume production datasets.
- Designed job-execution logging with per-run counts, per-item results, and high-resolution performance metrics, providing observability into previously uninstrumented scheduled jobs.

- Hardened multi-tenant backend security: session token revocation, MFA enforcement, JWT validator fixes, client-scoped API filtering, and password exclusion from response payloads.
- Migrated deployment pipelines to CodeBuild + GitHub Actions, hardened YAML configuration against parse failures, and removed insecure static credential workflows from CI.
- Introduced a pytest CI quality gate with shared cloud and HTTP mocking fixtures, establishing automated test enforcement as a mandatory PR check.
- Participated in production incident response, root-cause analysis, and hotfix releases — resolving rate-limit throughput defects, entity-mapping drift, YAML deploy failures, and cron boundary calculation bugs.
- Authored technical design proposals, solution documents, root cause analyses, and OpenAPI/Swagger specifications supporting long-term system maintainability.

Jr. MERN Stack Developer Intern — The Valor Solution

Oct 2024 – Dec 2024

- Developed backend APIs, business workflows, and MongoDB integrations using Node.js, TypeScript, and REST-based architectures across production systems.
- Contributed to feature delivery, bug fixes, API enhancements, and backend workflow automation as part of a multi-engineer team.
- Promoted to Junior Software Developer in Jan 2025 based on production delivery consistency and engineering contributions during the internship.

KEY ENGINEERING ACHIEVEMENTS

Custom Form Builder Platform

- Co-designed and shipped a backend Form Builder that replaced a third-party subscription — covering dynamic validation, submission APIs, S3 document handling, reporting, and queue-driven downstream EMR integration.

Fax Routing & Forwarding Automation

- Built a complete fax routing system with business-hours-aware processing, automated and manual forwarding paths, retry handling, and configurable multi-tenant routing rules.

Aggregation Pipeline Rewrite

- Re-architected DocumentDB aggregation and query patterns, eliminating full-collection scans and reducing patient-list pipeline latency from 26s to 19s.

Workflow Automation & Queue Processing

- Designed queue-driven workflow orchestration across SQS-backed pipelines supporting multi-tenant document processing, notifications, and operational automation.

Batch Processing for Scale

- Replaced single-pass data processing with paginated batch patterns, eliminating OOM failures and timeouts on high-volume healthcare datasets.

Multi-Tenant Security Hardening

- Delivered session revocation, MFA enforcement, JWT fixes, client-scoped API filtering, and CI credential hygiene across a multi-tenant SaaS backend.

CI/CD Modernization & Test Gate

- Migrated to CodeBuild + GitHub Actions, hardened YAML pipelines, and introduced a mandatory pytest CI gate with cloud/HTTP mocking fixtures.

Production Incident Resolution

- Led root-cause analysis and hotfix releases for rate-limit defects, entity-mapping drift, YAML parse failures, and cron boundary bugs across business-critical backend services.

EDUCATION

Bachelor of Engineering (B.E.) – Computer Science and Engineering

2020 – 2024 | CGPA: 8.47