Muhammad Ibrahim Siddiqui

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Experience:

Ikon Technologies - Arlington, TX **Software Development Engineer II [February 2025 - Present]**

- Architected Smart Marketing Platform using microservices (NestJS + TypeScript), GraphQL APIs, and AWS (Fargate, S3, CloudFront); integrated Pinpoint for multi-channel campaigns that generated $1.7M in annual revenue.
- Automated order and inventory workflows with a NetSuite-integrated microservice, improving data accuracy to 100%, saving teams 40+ hours/month, and enabling real-time system visibility.
- Delivered BLE Keys initiative by integrating BLE devices and dealership gateways into existing mobile app, allowing dealerships to track keys alongside vehicles; expected to drive $20M+ in annual revenue.
- Built ETL pipelines in AWS (Step Functions, Glue Crawlers, Glue) for vendor integrations with Data Aggregators and DMS providers (e.g., CDK Global, Authenticom), streamlining ingestion and synchronization.
- Mentored interns and onboarded engineers; conducted technical interviews for candidates to strengthen engineering team quality.
- Partnered with C-level executives in regular cadence meetings to align on initiatives, priorities, and roadmap planning.

Software Development Engineer I [June 2023 -January 2025]

- Transformed a monolithic backend into a scalable microservices architecture (NestJS + TypeScript) using AWS CDK for IaC adhering to OOP best practices, boosting system resilience and performance across multiple environments.
- Implemented AWS Cognito with OAuth2.0/SSO, achieving SOC-2 compliance, improving authentication reliability by 30%, and reducing login issues by 25% for 50K+ users.
- Addressed demand for flexible data retrieval by building GraphQL APIs (Apollo Server), containerizing via Docker, and deploying on AWS Fargate, achieving sub-200ms average response times, and full IaC consistency.
- Integrated Datadog and CloudWatch for real-time alerts and metrics, cutting incident response times by 40% and boosting system availability.
- Designed CI/CD pipelines with GitHub Actions, GitFlow branching, semantic versioning, and tagging, streamlining releases and improving build times.
- Elevated code quality through a TDD approach using Jest, MockQL, and Supertest, attaining 90%+ test coverage and ensuring stable GraphQL and microservice interactions.
- Resolved latency bottlenecks in real-time alerting by implementing Redis on AWS ElastiCache for TTL jobs, processing over 1M entries/day with minimal latency.
- Eliminated slow search queries by deploying a self-hosted OpenSearch cluster on AWS EC2, enabling real-time indexing of 200K+ records/day and improving search speeds by 50%.
- Enhanced cross-functional collaboration with Scrum Masters, designers, and PMs through improved sprint planning and retrospectives, driving consistent feature delivery aligned with business goals and boosting sprint velocity by 15%.

Software Engineer Intern [January 2022 – May 2023]

- Resolved user navigation challenges by implementing responsive React/TypeScript dashboards with React Router, improving real-time analytics UX for telematics data.
- Tackled sluggish frontend performance by introducing Redux Toolkit for state management and React Query for optimized API calls, cutting render times by 30%.
- Eliminated redundant code by building reusable, accessible React components (Hooks, Context API), ensuring consistent UI and seamless GraphQL integration.

Skills:

- Languages: Python, Java, C++, JavaScript, C#, ASP.Net
- Cloud/DevOps: Terraform, Jenkins, Swagger, Kubernetes, Pulumi, Azure
- Frameworks/Libraries: Angular, React, Node.js, Express.js, React Native, DrizzleORM, Zod
- Databases: PostgreSQL, DynamoDB , SQL Server, MongoDB, RDS
- Certificates: AWS – Cloud Practitioner, Solution Architect Associate, Solutions Architect Professional

Education:

- The University of Texas at Arlington — Bachelor of Science: Software Engineering
- Honors: Dean's List GPA: 3.88, Maverick Scholar, Magna Cum Laude

Projects:

Smart Home Monitoring: **Technologies: Kotlin, Java, Android SDK, AWS IoT, Amazon SNS, Firebase**

- Developed a native Android application in Kotlin that integrates with AWS IoT to provide real-time device telemetry (light sensors, temperature, motion).
- Implemented push notifications via Amazon SNS, improving user responsiveness by 60% when critical smart home events occur (e.g., unexpected door openings).