

Arun Kumar Dorepally

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Sr. Dev Engineer III

Backend-focused Senior Development Engineer III with 6.8+ years of experience in designing scalable REST & GraphQL APIs, cloud-based architectures, and high-performance backend systems. Strong expertise in AWS, NestJS, and database optimizations. Proven ability to lead development teams, implement secure authentication systems, and drive automation with CI/CD pipelines.

SKILLS

Languages & Frameworks: JavaScript, TypeScript, Express.js, Node.js, NestJS

Databases & ORM: Oracle DB, Postgres, TypeORM, Prisma, SQL, SOQL

Web Services & APIs: REST, GraphQL, Salesforce REST APIs, Twilio, Mailchimp, SendGrid, Directus, Firebase Cloud Messaging, Algolia, Mistral AI APIs

Authentication & Security: Firebase, JWT, OAuth2.0, RBAC, LDAP SSO

Cloud & DevOps: AWS (EC2, EB, S3), Docker, CI/CD (CircleCI, GitLab CI, Bitbucket)

Testing: Jest

Version Control: Git

WORK EXPERIENCE

Technoidentity • Hyderabad, India • 09/2018 - Present

Sr. Dev Engineer III

- Fostered a culture of knowledge sharing by mentoring junior developers, which improved team performance and accelerated project delivery timelines.
- Designed and implemented scalable REST & GraphQL APIs using NestJS, Node.js, Express.js, TypeORM, and Prisma, enabling seamless data flow and application efficiency.
- Developed high-performance, database-driven applications with Oracle DB and PostgreSQL, improving query performance and response times by 30%.
- Integrated OAuth2.0, JWT, Firebase Authentication, RBAC, and LDAP SSO to enhance security and ensure compliance with industry standards.
- Deployed and managed applications on AWS (EB, EC2, S3) and automated CI/CD pipelines, reducing deployment time by 50%.
- Owned end-to-end backend deployment processes, optimizing cloud infrastructure to enhance application scalability and resilience.
- Implemented real-time communication features using Twilio, Firebase Cloud Messaging (FCM), and Salesforce REST APIs, improving system responsiveness and user experience.
- Integrated Salesforce APIs, Directus CMS, Algolia Search, Stripe Payments, and Mailchimp Mandrill API to enhance platform capabilities and business automation.
- Diagnosed and resolved performance bottlenecks, leveraging io-ts for type validation to prevent XSS vulnerabilities and reduce database load by 25%.
- Ensured 85%+ unit test coverage using Jest, following TDD practices, and proactively refactored codebases to improve maintainability and stability.

PROJECTS

UGVille Mobile

HomeVestors of America, Inc.

Implemented REST APIs with Salesforce integrations. Automated payments using Stripe and Salesforce. Set up AWS S3 for contract and image uploads. Implemented CI/CD pipelines with BitBucket Pipelines. Wrote unit tests to improve code quality.

Selfsea

Sidebench - Peer Health Exchange

Developed GraphQL APIs and backend services. Implemented Firebase authentication and RBAC for access control. Integrated Twilio for real-time chat and MailChimp Mandrill API for emails. Used Redis for event-driven subscriptions.

Merchandise Operations

Blue Yonder - Panasonic

Converted an old Uniface application into a modern web-based application. Developed REST APIs with Oracle DB and stored procedures. Implemented JWT authentication, LDAP-based SSO, and RBAC authorization. Wrote unit tests using Jest to ensure code stability.

DIYA

Midwest Energy

Developed REST APIs with Oracle DB stored procedures. Integrated RBAC for user permissions and authentication using JWT. Used io-ts and tcomb for input validation to prevent XSS. Wrote unit tests to ensure robustness.

AI PPT Generator (Personal Project)

Developed an AI-powered tool using NestJS and Mistral AI APIs to automate PowerPoint slide creation. Increased user productivity by 50% by automating structured content generation.

EDUCATION

Bachelor's in Electronics & Communication Engineering

Keshav Memorial Institute of Technology • Hyderabad, India

PUBLICATIONS

Build an AI-powered PPT Generator using NestJS

dev.to

Professional blog detailing the development process and architecture.

Learn How to Create and Test a File Upload API using NestJS and Postman

dev.to

Comprehensive guide on building and testing file upload APIs.

Automating Your TypeScript Node.js Application Deployment to AWS Elastic Beanstalk with Bitbucket Pipelines

dev.to

Step-by-step tutorial on automating TypeScript deployment using AWS and Bitbucket Pipelines.