

# Atharva Unde

## Backend Engineer

Results-oriented DevOps engineer with certifications in AWS (Solutions Architect Associate), Terraform, and KCNA. Expertise includes optimizing cloud infrastructure, automating deployments, and improving software delivery pipelines using tools like AWS, Vue.js, Node.js, and Docker.

## Experience

### Confiance Bizsol Inc

Software Developer Engineer (L2)

July 2023 – Present (Ahmedabad, On Site)

1. Architected and developed a suite of scalable Node.js microservices, including a payroll service, centralized email service, and S3 file management service, enhancing application functionality and system stability.
2. Collaborated on migrating backend services from EC2 instances to a containerized EKS cluster using infrastructure-as-code, improving deployment consistency and environment reliability for Node.js applications.
3. Deployed and managed dedicated EKS clusters using Infrastructure as Code to provide isolated and resource-optimized production environments for Node.js microservices.
4. Utilized cost-effective strategies within the EKS environment, such as leveraging Spot Instances for worker nodes, to optimize resource expenditure for hosting backend services.
5. Developed and maintained critical backend integrations with third-party platforms, including Shopify, QuickBooks Desktop, and QuickBooks Online, to synchronize data and automate business processes.

### CareerLabs Technologies Pvt. Ltd

Software Developer Engineer III

December 2022 – July 2023 (Remote, Company Ceased Operations)

1. Architected and developed a scalable Node.js microservices architecture to support complex third-party integrations (CPaaS/SaaS), focusing on API design, reliability, and efficient data processing.
2. Collaborated on initiatives to optimize application deployment and monitoring, contributing to improved system stability and faster release cycles for Node.js services.
3. Developed and adapted Node.js services to ensure seamless functionality post-migration to Azure-based containerized environments (AKS), focusing on service compatibility and performance.

Software Developer Engineer II

Dec 2021 – Dec 2022 (Bengaluru, On Site)

1. Developed and maintained business-critical Node.js microservices, designing for scalability and using Docker for consistent development and deployment environments.
2. Designed and implemented a high-throughput Node.js backend for an in-house URL shortener, featuring click analytics and role-based access control (RBAC) and handling over 200,000 clicks daily (See 'Projects' section for details).
3. Built and maintained a data synchronization service in Node.js, integrating various applications like LeadSquared, Zoho CRM via APIs to ensure real-time and consistent data flow.
4. Developed and implemented backend API integrations with multiple third-party platforms (Moodle, JIRA, etc.) to streamline workflows and enhance application functionality.
5. Developed a custom Node.js backend for a WhatsApp Marketing Solution, leveraging Cloud Business APIs to manage messaging workflows and user interactions (See 'Projects' section for details).

## Contact Details

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### Links

[Credly Badges](#)

[LinkedIn](#)

## Skills

**Cloud:** AWS, Azure

**IaC:** Terraform, eksctl.

**Containerization:** Docker, K8s.

**CI/CD:** Jenkins, GitHub Actions

**Programming:** Node.js, Vue.js.

**Tools:** JIRA, Github Projects

## Product Associate

Dec 2020 – Dec 2021

1. Collaborated with engineering teams to assess technical feasibility for new product features, prototyping quick Proof-of-Concepts (POCs) including frontend and backend components for stakeholder demos.
2. Translated product requirements into technical considerations, designing and building functional prototypes (POCs) to demonstrate product concepts and technical approaches to stakeholders.

## Projects

### In-house URL Shortener with Analytics

Software Developer Engineer II, CareerLabs Technologies Pvt. Ltd

**Technologies:** Node.JS, Express, PostgreSQL, MongoDB, Sequelize ORM, Docker, AWS, Vue.JS

1. Designed and implemented the backend architecture for a high-throughput URL shortening service capable of handling over 200,000 clicks daily.
2. Developed and managed the database layer using PostgreSQL and Sequelize ORM for core URL data and MongoDB for real-time click analytics, optimizing data storage and retrieval.
3. Developed secure RESTful APIs for URL creation, redirection, and management, incorporating comprehensive validation and error handling.
4. Implemented real-time click tracking and analytics features, storing data efficiently in MongoDB.
5. Designed and integrated a robust Role-Based Access Control (RBAC) system, including functionality for user management and setting granular permissions for URL creation and analytics access.

### Custom WhatsApp Marketing Platform

Software Developer Engineer II, CareerLabs Technologies Pvt. Ltd

**Technologies:** Node.JS, Vue.JS, Express, AWS SQS, MongoDB, WhatsApp Business API, Docker, GraphQL

1. Designed and developed the backend core of a custom WhatsApp marketing solution using Node.js, replacing an external off-the-shelf product to create an in-house design product.
2. Integrated directly with the WhatsApp Business Cloud API, leveraging AWS SQS for robust asynchronous message queuing and MongoDB for flexible data storage.
3. Configured and implemented webhooks to process real-time feedback from the API (e.g., delivery and read receipts), ensuring accurate campaign tracking and user interaction logging.
4. Built a comprehensive reporting module within the backend, enabling cross-functional teams to analyze campaign performance based on message send/delivery rates, timelines, and cohort data, facilitating improved lead analysis and nurturing strategies.
5. Seamlessly integrated the platform with the company's CRM system to automate lead nurturing workflows and enable efficient usage by various operational teams.
6. Drove significant operational efficiency and cost savings by automating manual processes, reducing the content creation-to-message send turnaround time from over a week to 2-3 days.
7. Achieved substantial business expense reduction, saving approximately ₹70,000 per quarter compared to the previous solution.

## Education

### Pimpri Chinchwad College of Engineering (University of Pune)

Bachelor of Computer Engineering, Sep 2016 – Oct 2020

## Certifications

### KCNA: Kubernetes and Cloud Native Associate

The Linux Foundation

### AWS Certified Solutions Architect – Associate

Amazon Web Services

### Microsoft Certified: Azure Fundamentals

Microsoft

### HashiCorp Certified: Terraform Associate (003)

HashiCorp