

Om Ahir  
Cloud Engineer | AWS Certified | Terraform | Full-Stack Developer  
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**Summary:** Cloud Engineer with 3.6+ years of experience building secure, scalable applications at the intersection of full-stack development and cloud infrastructure. Proven expertise in AWS, Terraform, Serverless architecture, CI/CD automation, and DevOps and Development. Successfully delivered cloud-native solutions across enterprise platforms at Cisco and Biz2X. Recognized for deploying AI-driven services, leading cloud migrations, and creating impactful digital learning tools. Active contributor through personal cloud projects and technical blogging at [blog.omahir.com](https://blog.omahir.com).

#### KEY SKILLS:

**Cloud & DevOps:** AWS (Lambda, EC2, S3, EBS, EFS, CloudFront, Cognito, IAM, DynamoDB, RDS, DMS, VPC, API Gateway, Route 53, ACM, EKS, ALB, CodePipeline, CodeBuild, CodeDeploy, CloudWatch, SNS, SQS, DataSync, Bedrock, Q Business), Terraform, GitHub Actions, Jenkins, Serverless Architecture, Kubernetes, Docker.

**AI & LLMs:** Amazon Bedrock, OpenAI API, Google Gemini, Retrieval-Augmented Generation (RAG), Prompt Engineering, Model Context Protocol (MCP).

**CI/CD & Infra Tools:** Terraform, AWS CodeDeploy, GitHub Actions, CircleCI, Docker, EKS.

**Backend:** Node.js, Express.js, MongoDB, MySQL.

**Frontend:** Vue.js, Vue3, AngularJS, TypeScript, JavaScript, Tailwind CSS, Bootstrap.

**Tools & Platforms:** Git, GitHub, Gitlab, CircleCI, Storybook, Figma.

**Cloud Certifications:** AWS Solutions Architect | Terraform Associate | Azure Fundamentals | AWS AI Practitioner | AWS Cloud Practitioner

#### Certification:

- ◆ AWS Certified Solutions Architect - Associate - Jan 2024
- ◆ HashiCorp Certified: Terraform Associate - May 2024
- ◆ AWS Certified Cloud Practitioner - Sep 2023
- ◆ AWS Certified AI Practitioner - Jan 2025
- ◆ Microsoft Certified: Azure Fundamentals - Jun 2022
- ◆ AWS Fundamentals: Building Serverless Applications - Aug 2023
- ◆ The Complete JavaScript Course (Zero to Expert) - Apr 2022

#### EXPERIENCE:

Software Engineer, Biz2x Private Limited Pune, India	2024 Dec - present
Senior Software Engineer, Persistent Systems Pune, India	2024 July - 2024 Dec
Software Engineer, Persistent Systems Pune, India	2022 June - 2024 June
Intern, Persistent Systems Pune, India	2022 Jan - 2022 June

#### PROJECTS

##### SIDBI (Duration: From Dec 2024 to present))

**Project Description:** Developed an AI-driven lending platform with three user journeys: Anchor, Buyer, and Seller using AngularJS, NodeJs, and MongoDB.

- ◆ Currently building a RAG (Retrieval-Augmented Generation) system using AWS Q Business to automatically answer Buyer queries and reduce support load by ~40%.
- ◆ Integrated KARZA APIs to fetch Buyer's GST details for real-time identity verification and fraud detection.
- ◆ Implemented User Bank Statement processing and Offer Generation features to automate personalized lending decisions.
- ◆ Developed an AI-driven lending platform with three user journeys: Anchor, Buyer, and Seller using AngularJS, NodeJs, and MongoDB.

**Skills:** AngularJs, NodeJs, MongoDB, AWS Q Business, AWS AI Services.

##### CISCO U

(Duration: From July 2022 to Dec 2024)

**Project Description:** Cisco U is a new digital learning experience with personalized recommendations, community connections, progress tracking, and diverse content types for diverse learning styles.

- ◆ Established a table structure within the Cisco Admin application to oversee the administration of rules for managing Cisco Certification Badge through the Credly API.
- ◆ Implemented Manage Licences Functionality and Manage Entitlements Functionality for Cisco U. and Cisco U Admin.
- ◆ Built Cisco's digital learning experience using Vue.js and Tailwind CSS, which can guide learners to the right role or solution. This helped enhance accessibility and self-paced learning across global audiences.
- ◆ Proficient in Vue3, VueJs, TailwindCSS, Storybook and Figma.

**Skills:** Vue3, VueJs, TailwindCSS, TypeScript, Credly API, CircleCI, Figma, Storybook.

##### Cisco's E-Service Training

(Duration: From July 2022 to Dec 2024))

**Project Description:** The E-Service Training site and resources support Cisco's Third Party Maintainer Field Engineers.

- ◆ Developed an E-Service Training site, offering essential resources for Cisco's ThirdParty Maintainer Field Engineers, referred to as 'FieldX.' Employed AWS CloudFront for efficient content distribution and AWS S3 for serving static content.
- ◆ Successfully transitioned a Monolith Application to a Serverless Architecture on AWS.
- ◆ Migrated Elastic File Storage (EFS) to S3 through DataSync
- ◆ Migrated Relational Database Service (RDS) to DynamoDB using Database Migration Service (DMS)
- ◆ Migrated CI/CD from Jenkins to AWS CodeBuild, CodePipeline, and CodeDeploy, reducing deployment time by ~50%
- ◆ Updated batch items in DynamoDB for multiple remedial procedures using AWS SDK.
- ◆ Implemented AWS Cognito for authentication and integrated it with Cisco's OKTA, ensuring OAuth2 compliance.
- ◆ Built an API with API Gateway and Lambda to retrieve training categories from DynamoDB using NodeJs and ExpressJs.
- ◆ Implemented Recent Offering feature (end-to-end) which shows recently added categories in the FieldX Application.
- ◆ Developed an E-Service Training site offering essential resources for Cisco's Third Party Maintainer Field Engineers, referred to as 'FieldX.'
- ◆ Used AWS CloudFront for global content distribution and AWS S3 for static content hosting.

**Skills:** Vue3, PrimeVue Components, Tailwind CSS, JavaScript, TypeScript, NodeJs, ExpressJs, AWS CloudFront, AWS API Gateway, AWS DynamoDB, AWS S3, AWS Cognito, AWS Lambda, OKTA, OAuth2, AWS SDK, AWS CodeBuild, CodePipeline, CodeDeploy, DataSync, DMS.

#### Cisco E-Service Training Admin

(Duration: From July 2022 to Dec 2024))

- ◆ Build a FieldX Admin "End-to-End" Application which will perform Operations for the management of E-Service Training Categories Contents and Products by Admin Users and Third Party Venders.
- ◆ Integrated AWS Cognito with third-party vendor access controls, enabling secure multi-role access management.
- ◆ Configured CI/CD automation using AWS CodeBuild and CodePipeline to streamline deployment of admin tools across environments.
- ◆ Built a FieldX Admin "End-to-End" Application to manage E-Service Training Categories, Contents, and Products by Admin Users and Third Party Vendors.

**Skills:** Vue.js, PrimeVue Components, Tailwind CSS, JavaScript, TypeScript, AWS CloudFront, AWS API Gateway, AWS DynamoDB, AWS S3, AWS Cognito, AWS CodeBuild, AWS CodePipeline.

#### Cisco's Learning Network Space

(Duration: From July 2022 to Dec 2024))

**Project Description:** Cisco Learning Network Space is a digital learning platform built to offer instant user access to training information, course materials, and exam preparation resources. This customization, personal learning environment provides you with your content, when you want it, how you want it delivered.

- ◆ Migrated the Cisco Learning Space Admin authentication to Cisco OKTA and AWS Cognito, securing APIs with Cognito's custom authorizer.
- ◆ The Admin Service, hosted on AWS EKS, is exposed securely using AWS API Gateway and Application Load Balancer (ALB) – improving resilience and uptime to 99.9%.
- ◆ Converted markdown documentation from Cisco's DevNet Site to HTML, and deployed via production CI/CD pipelines.
- ◆ Cisco Learning Network Space is a digital learning platform providing personalized access to training content, exam prep resources, and materials-on-demand.

**Skills:** HTML, CSS, JavaScript, Git, Jenkins, AWS EKS, AWS ALB, AWS RDS, AWS Cognito, AWS API Gateway, AWS Lambda, OKTA, Kubernetes.

#### Cisco's E-Reader

(Duration: From July 2022 to Dec 2024))

- ◆ Engineered an advanced tool for Cisco's E-Reader Application to empower users with the ability to highlight and annotate learning material.
- ◆ Improved learner engagement and content interaction by ~25% through seamless text-highlighting and annotation flow.
- ◆ **Skills:** HTML, CSS, Vue.js, JavaScript, TypeScript, Vue3.

### INDEPENDENT PROJECTS & CLOUD TOOLS

#### infraai.omahir.com - AI-Powered Infra Generator using MCP

- ◆ Built a generative infrastructure platform that uses Model Context Protocol (MCP) to convert text or image prompts into Terraform scripts.
- ◆ Implements an intelligent MCP parser that converts structured Terraform JSON into ready-to-deploy IaC templates, automating infrastructure creation on AWS.
- ◆ Includes built-in support for common cloud stacks like EC2, VPC, S3, IAM, with integration for reusable architecture blueprints.

**Skills:** AWS Lambda, API Gateway, DynamoDB, OpenAI API, Vue3, Terraform, MCP

#### blogs.omahir.com - DevOps, AI, and Cloud Engineering Blog

- ◆ Personal technical blog focused on hands-on cloud and DevOps practices, serverless architecture, and AI engineering. Articles include deep dives into Terraform module creation, RAG with AWS Q, OAuth2 integrations, and OpenAI-powered app design.
  - ◆ Deployed with CI/CD via GitHub Actions and hosted as a statically generated site on S3 + CloudFront.
- Skills:** GitHub Actions, AWS S3, CloudFront, Markdown, Custom Domain

#### dreamora.cloud - Dream Interpretation & Emotional AI Companion

- ◆ Launched a Gen-Z-focused AI web app for interpreting dreams, explaining emotional triggers, and offering safe emotional journaling.
  - ◆ Built using OpenAI-powered flows and designed with a comforting, privacy-first UX to create a safe space for introspection.
- Skills:** Vue3, Tailwind CSS, AWS Lambda, DynamoDB, OpenAI API, Cognito

**omahir.com - Personal Cloud Portfolio**

- ◆ Designed and developed a professional portfolio to showcase cloud-native projects, certifications, open-source tools, and blog ecosystem.
- ◆ Includes full listing of independent AWS deployments, DevOps work, and AI experiments, all presented in a clean and mobile-first UI.
- ◆ Hosted on AWS S3 + CloudFront, deployed using GitHub Actions.  
Skills: HTML, Tailwind CSS, AWS S3, CloudFront, GitHub Actions, DNS

**EDUCATION**

**Bachelor of Engineering CSE**, Savitribai Phule Pune University Nashik, India (8.76 CGPA) - 2018 Jun - 2022 Apr

**Awards & Recognition:**

**High Five Individual Awards**, Persistent Systems, Pune India - 2023 May

Got an Award for timely Delivery Commitment, customer has appreciated the same with an award.

**Semicolons Global Hackathon**, Persistent Systems, Pune, India - 2024 Feb

Recognised on a global scale at Persistent Semicolons (Global Hackathon) Out of 250+ teams, we were awarded for the "Best Use of Azure OpenAI API"

**AWS Community Day**, AWS - Ahmedabad, India - Jan 2024

Participated in AWS Community Day in Ahmedabad, engaging in insightful sessions with diverse AWS Community Builders from around the world.

**Top Talent FY24**, 2024 Apr

Recognized as a Top Talent in Persistent Systems in FY2024

**Personal Details:**

Current Address	:	Pune, India
Linguistic Ability	:	English, Marathi & Hindi
Marital Status	:	Single