Khyati Prajapati

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EDUCATION

Rutgers University   New Brunswick, NJ
Master of Science in Computer Science; GPA: 3.8   *Expected Graduation, Dec 2025*
- **Relevant Coursework:** Cloud Computing & Big Data, Computer Networks, Introduction to AI, Database Systems for Data Science

University of Mumbai   Mumbai, India
B.E. in Information Technology; GPA: 3.77   *July 2017 – May 2021*

EXPERIENCE

Cloud Infrastructure Engineer   Navi Mumbai, IN
Capgemini Technology Services Limited   *Jun. 2021 – Jul. 2023*
- Migrated **20+ legacy applications** to **Microsoft Azure**, leveraging all **6 R's of cloud migration** (Rehost, Replatform, Refactor, Retire, Retain, Repurchase) to optimize for performance, scalability, and compliance.
- Automated provisioning of **cloud infrastructure** for multi-stage environments (**Dev, SIT, UAT, Pre-Prod, Prod**) using **Terraform**, ensuring consistency, scalability, and repeatability.
- Streamlined environment configuration using **Ansible**, eliminating manual setup errors and reducing deployment time by **30%**.
- Designed and maintained **CI/CD pipelines using Jenkins**, integrating infrastructure and application deployment workflows across multi-team environments.
- Provisioned and managed **Azure services** including App Services, Storage Accounts, Managed Identities, and Azure Databases (MySQL), securing connectivity with **RBAC and NSGs**.
- Mentored and trained **10 new hires** on cloud migration techniques, achieving a notable decrease in error rates by **25%** and enhancing overall project delivery speed by **20%**.

PROJECTS

Cloud-Native Resume Enhancement Platform | *AWS Lambda, ECS, Docker, FastAPI, S3, DynamoDB*
- Architected and containerized an **LLM-powered resume enhancement system** using **FastAPI** and **Docker**, integrating a fine-tuned **Flan-T5 model** with **Sentence-BERT** and **FAISS** for semantic job-resume alignment.
- Deployed real-time inference pipelines using **AWS Lambda** and **ECS Fargate**, with storage and metadata management via **S3** and **DynamoDB**, ensuring **fault-tolerant** and **scalable processing**.
- Designed **RESTful APIs** and automated infrastructure to enable seamless delivery of **AI-driven resume suggestions** optimized for applicant tracking systems (ATS).

Full-Stack Serverless Notes App | *AWS Amplify, React, GraphQL, Cognito, S3*
- Built and deployed a secure, serverless full-stack Notes application using **AWS Amplify Gen 2** and **React**, demonstrating end-to-end cloud-native development.
- Implemented a fully functional **GraphQL API** for dynamic data management and real-time updates.
- Configured **Amazon Cognito** for user authentication and authorization to ensure secure access control.
- Enabled secure image uploads to **Amazon S3** with fine-grained access policies and Amplify storage configuration.
- Leveraged Amplify's **backend-as-code model** to provision infrastructure, simplifying deployment and enabling version-controlled cloud resource management.

TECHNICAL SKILLS:

Cloud Platforms: AWS, Azure (AZ-104, AZ-204), Firebase
DevOps & IaC: Terraform, Ansible, Docker, Kubernetes, Jenkins, Azure DevOps, CI/CD
Monitoring: Amazon CloudWatch, Azure Monitor, Prometheus
Programming: Python, Java, Shell, JavaScript
Frameworks: React, JSP/Servlets
Web & API: RESTful APIs, GraphQL, HTML/CSS, Postman
Databases: MySQL, PostgreSQL, MongoDB
Tools: Git, JIRA, VS Code, Android Studio

ACHIEVEMENTS

- **Winner, HackPrinceton Spring 2025:** Built *MoveMend*, an AI-powered physiotherapy web app providing real-time posture correction using BlazePose, TensorFlow.js, and React. Awarded **Best Use of Auth0** by MLH.
- **Winner, HackHers 2025:** Awarded **Best Overall Hack** and **Best Use of MongoDB** for developing HerMaps.
- **Winner, Smart India Hackathon 2020:** Developed *Cropifier*, an AI-powered crop identification mobile app, providing a solution for a problem statement given by *ISRO* and awarded **1st Prize** in the competition.