

Tejas Bachhav

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SUMMARY

Cloud DevOps Engineer with 3+ years of experience in building scalable cloud infrastructure, leveraging automation-first workflows with Ansible and Python, and designing Terraform-based IaC. I specialize in optimizing CI/CD pipelines, reducing VM provisioning time from 87 days to just 1 hour, cutting RTO by 70%, and driving over \$ 600,000 in annual savings.

SKILLS

Languages & Databases: Python, Golang, Bash, PowerShell | MySQL, PostgreSQL

Agentic AI: RAG, Graph RAG, Vertex AI, Google Agent Development Kit, CrewAI

Cloud & DevOps: Ansible, Terraform, AWS (EC2, S3, Lambda), Azure DevOps, GCP(Cloud Build/Run), Docker, Kubernetes, Jenkins

Systems & Tools: Linux(RHEL, Ubuntu, CentOS), Windows, IIS, NGINX, Git, ServiceNow, Vim, Bitbucket, Cursor, GitHub Actions

Certifications: AWS Developer Associate, Aviatrix-Multicloud Network Associate, Red Hat RH199

PROFESSIONAL EXPERIENCE

Research Assistant

01/2025 – 06/2025 | Binghamton, USA

Binghamton University

- Automated provisioning of ephemeral **5G simulation nodes** using **Terraform and Python**, cutting environment setup time by **65%**
- Containerized **5G traffic-analysis tools** using **Docker**, enabling reproducible lab environments for graduate researchers

AI Research Assistant

01/2025 – 05/2025 | New York

Binghamton University

- Boosted heterogeneous ML-accelerator **utilization by 15%** through Pareto-optimal kernel placement on Cloud GPUs & Cerebras CS-1
- Designed Pareto-optimized mapping strategies to maximize compute performance and improve overall efficiency on cloud
- Published "**Optimal Device Sequencing and Kernel Assignment for Multiple Heterogeneous Machine Learning Accelerators**" at the GLS-VLSI 2025

Cloud DevOps Engineer

11/2020 – 06/2023 | Pune, India

Accenture

- Engineered **multi-cloud CI/CD pipelines** for microservices deployed on **Kubernetes**, cutting release **cycle time by 60%**
- Achieved **98%** reduction in **support-ticket costs** (\$2,254 → \$46) and **server-provisioning costs** (\$511 → \$10.42) using automation
- Developed **REST** endpoints in **FastAPI** to trigger **Ansible playbooks** via Postman to enable server provisioning using Jenkins pipelines
- Developed reusable IaC templates in **Terraform and Ansible Playbooks** across Azure and AWS, ensuring secure dev/stage/prod configurations
- Secured **multi-cloud infrastructure credentials** by integrating **HashiCorp Vault** across prod, pre-prod, and test environments
- Reduced average time to provision **servers** from **87 days to 1 hour** by automating VM setup and **Kubernetes namespace** creation
- Automated **onboarding for Citrix VDI systems**, mapping **700+ users** and reducing **manual efforts by 70%** through PowerShell and Ansible

PROJECTS

AI Job Search Agent | Bolt Hackathon 🔄

Python, TypeScript, Open AI, Supabase, GCP Cloud Run, Netlify

- Shipped an **AI-powered job search agent** using Typescript and Python to streamline the job application process for over **100 users**
- Implemented intelligent **resume screening** and automated job matching algorithms, increasing **candidate-job fit accuracy** by **35%**
- Enhanced repository **security** by automating **PR reviews** and test runs before merge, resulting in a **30% increase** in build stability
- Led a team of 4** in designing a scalable web application, resulting in **99% uptime** and successful **deployment within 24 hours**

StudentCore API 🔄

Golang, SQLite, Pagination, REST API, Postman

- Developed a **scalable student management API** with core endpoints and efficient request handling with a **50 ms response time**
- Implemented prepared statements to **reduce query preparation overhead by 40%** in a custom SQLite storage layer

Agent Builder - AgentsForYou 🔄

Typescript, RAG, Supabase, GitHub Actions, pdf-parse, Edge functions

- Architected **AI agent platform** with React/TypeScript/Supabase handling PDF-to-chatbot workflows, <1s query responses via RAG
- Engineered a **PDF processing pipeline** extracting/chunking 200+ page documents in **1-3s using pdf-parse** and vision APIs
- Built a **serverless backend** with Edge Functions, reducing infrastructure **costs by 70%**, supporting multi-tenant architecture
- Automated deployments via GitHub Actions, cutting **deployment time from 15 min to <2 min**
- Secured multi-tenant system** with JWT authentication, **35 RLS policies**, and protected routes, ensuring data isolation across tenants

CloudOps Goal Tracker

Azure, Terraform, Docker, Key Vault, Golang, PostgreSQL

- Deployed a **3-tier Azure Infrastructure** with Terraform, provisioning **6 VM Scale Sets** across **2 Availability Zones**, and reduced **deployment time by 80%**, ensuring **90% uptime**

- Architected secure Azure networking with 6 **subnets**, NSGs, private endpoints, and a **Bastion** access while maintaining low security incidents for Full Stack application deployment
- Built **modular Terraform** IaC (compute, networking, database), reducing code duplication by **60%** across dev/test/prod environments

EDUCATION

Master of Science in Computer Science

State University of New York at Binghamton

08/2023 – 05/2025 | Binghamton, USA

LEADERSHIP EXPERIENCE

VP of Education

Information Systems Club

Organized and led Linux, Python, and MySQL workshops for **100+ students**, driving a **50% member increase** in club membership and boosting hands-on skill development

08/2024 – 05/2025 | Binghamton, NY

President

Toastmasters International Club

Delivered **15+ mentor sessions** to new members and facilitated speech preparation along with monitoring **pathway learning** programs for members as a base camp manager

07/2022 – 03/2023 | Pune, India

AWARDS

Toastmasters Influential Leader Award

Leadership excellence in advancing the club's mission

06/2023

Accenture's Client Value Creation Award

Delivering efficient hybrid solutions as Cloud First initiative

01/2023

PUBLICATIONS

Optimal Device Sequencing and Kernel Assignment for Multiple Heterogeneous Machine Learning Accelerators [↗](#)

Association for Computing Machinery(ACM)

- In this paper, we present an optimal algorithmic approach to map **machine learning kernel graphs** to multiple machine learning accelerators, and in particular, we **focus on heterogeneous sets of accelerators**.
- By integrating devices from different technology generations, the useful life span of each device is increased, lowering the overall cost of achieving high performance

06/29/2025

OPEN-SOURCE COMMUNITY ENGAGEMENT

Kubernetes Community Days

Volunteer

- Coordinated event logistics and AV readiness for **15+ technical sessions** and **200+ attendees**, ensuring smooth presentations for speakers
- Engaged with CNCF leaders, engineers, and industry professionals, strengthening cloud-native community relationships

07/2025 | New York, USA

AWS New York Summit 2024

Gained hands-on knowledge of Amazon Bedrock and Amazon Q for AI apps

07/2024 | New York, USA

Cloud Native Upstate New York [↗](#)

Organizing Member

- **Organizer for the Cloud Native Upstate New York (CNCG) Chapter**, a Cloud Native Computing Foundation (CNCF) community group serving technologists across Albany, Troy, Poughkeepsie, the Southern Tier, and the Adirondacks
- Curate **technical sessions, talks, and workshops** for cloud-native practitioners, covering Kubernetes, Helm, Terraform, ArgoCD, CI/CD pipelines, and modern platform engineering
- **Grow local cloud-native community engagement** by coordinating events, driving discussions, and connecting professionals from universities, startups, and enterprise teams

07/2025 – Present | New York, USA