

DHRUVESH PATEL

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EDUCATION

The Pennsylvania State University – Abington, PA

January 2023 – December 2024

Bachelor of Science in Information Technology — GPA: 3.85

Extracurricular: South Asian Student Association Club Member

Relevant Coursework: Data Structures & Algorithms, OOP with Web Application, Principles of Programming Languages, Fundamentals of Computer Networks, Computer Architecture & Organization, Database Design, Project Management.

TECHNICAL SKILLS

Programming Languages: Python, SQL, HTML, CSS, Java, PHP, JavaScript, C#, Pandas, MATLAB

Operating Systems: Linux, Oracle VirtualBox, Windows, Mac OS X

Cloud & Virtualization — AWS Certified Cloud Practitioner

- Hands-on experience with AWS core services: EC2, S3, RDS, Lambda, IAM
- Strong understanding of AWS architecture principles, billing, and pricing models
- Experience with pre-migration assessments, including network/architecture diagram review for firewall and FQDN requirements
- Practical experience with AWS resource tagging automation, EC2 instance right-sizing, and patch/vulnerability management
- Familiarity with cloud deployment models, high availability, and fault tolerance
- Experience with the AWS Management Console and AWS CLI

DevOps & Automation Tools: Git, Docker, Kubernetes, Terraform, CI/CD, Ansible

Soft Skills: Leadership, Problem-Solving, Teamwork, Adaptability, Time Management, Customer Service, Creativity, Communication, Conflict Resolution, Ethical Decision-Making

PROFESSIONAL EXPERIENCE

Cloud Engineer | TCS, Milford, Ohio

January 2026 – Present

- Conduct pre-migration assessments by analyzing network architecture diagrams to identify and document ingress/egress firewall rules, FQDNs, and connectivity requirements, ensuring secure and accurate cloud migration planning.
- Automate AWS resource tagging through scripting (Python/AWS CLI) to enforce governance and cost-allocation standards and maintain compliance across cloud environments.
- Perform vulnerability and patch management across cloud infrastructure, identifying, prioritizing, and remediating security gaps to maintain system integrity and compliance.
- Right-size EC2 instances by scaling compute configurations up and down based on performance monitoring and utilization metrics to optimize cost and performance.
- Apply AWS Certified Cloud Practitioner knowledge to support day-to-day cloud operations, resource management, and adoption of cloud best practices.

IT Support Technician | Jefferson Health, Warminster, PA

August 2025 – December 2025

- Conduct on-site environment mapping and detailed asset inventory across multiple Jefferson Hospital and ambulatory locations.
- Prepare, configure, and build PCs, printers, scanners, and EPIC-required peripherals to Jefferson Health standards.
- Deploy and install hardware within various departments, ensuring minimal disruption to clinical operations.
- Decommission outdated equipment and manage proper removal procedures.
- Provide post-go-live support for EPIC system implementations, resolving technical issues efficiently.

- Collaborate with healthcare staff and IT teams to ensure smooth integration and operational readiness.

PROJECT EXPERIENCE

OpsDesk – DevOps CI/CD Platform | [Personal Project](#)

2026 – Present

- Architected and built a full CI/CD pipeline (GitHub, Jenkins, Docker) with protected branches, mandatory pull request reviews, and fully automated build-test-deploy to AWS EC2 triggered by every push.
- Designed a custom AWS VPC with public/private subnet segmentation and migrated a live production server into it with zero downtime, isolating a PostgreSQL RDS database with no public internet access.
- Implemented least-privilege IAM throughout, including a custom policy scoping an application's S3 access to a single bucket instead of a broad managed policy, and separate credentials per service (CI/CD, database, application).
- Integrated third-party services (SendGrid transactional email, AWS S3 document storage) into a Node.js/Express REST API, with SSL-encrypted database connections and Nginx as a reverse proxy.

AWS Static Website Hosting Project | [Personal Project](#)

- Developed and deployed a static website using HTML, CSS, and JavaScript.
- Created and configured Amazon S3 buckets to host the static website files.
- Set up IAM roles and policies to manage access permissions securely.
- Configured AWS Certificate Manager (ACM) for SSL/TLS certificate provisioning.
- Integrated Amazon CloudFront as a Content Delivery Network (CDN) to improve website performance and enable HTTPS.
- Used Amazon Route 53 to manage domain registration and DNS routing for custom domain setup.
- Gained hands-on experience with end-to-end deployment of a secure and scalable static website on AWS.