

Nirmit Hitendra Dagli

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EDUCATION

Quinnipiac University | Master of Computer Science | GPA 3.8/4

May 2026

Relevant Courses: Computer Networks, GenAI & Quantum Computing, and working on research related to Quantum Computing and Generative AI.

University of Mumbai, India | Bachelor of Engineering in Information Technology | GPA: 3.1/4

May 2020

Relevant Courses: Python, Cloud Computing, Operating Systems, Software Development, IoT.

TECHNICAL SKILLS

Programming and Scripting Languages: Python, Java, C++, Bash, and YAML.

Frameworks & Technologies: AWS, GCP, Azure, Docker, Kubernetes, Storage, DevOps, Networks, Linux, ELK, DevOps, Cybersecurity, IAC.

System Administration: CentOS, Red Hat, Kali, Ubuntu, Oracle Linux, Microsoft Windows Server, VMware, KVM, Ovirt, OpenShift.

Tools: Palo Alto, FortiGate, Pfsense, Veeam Backup, Jenkins, Ansible, GitHub, Grafana, Dynatrace, Jira, Prometheus, Zscaler, CrowdStrike, Cribble, CyberArk, Argocd, MongoDB, PostgreSQL, Terraform, Grafana, Rancher, NetApp, Kyverno, OPA, Velero, Draw.io.

AI Tools & Technologies: Cursor, Multimodal, Bedrock, Azure AI Foundry, Amazon Q, Hugging Face, Ollama, Langchain, RAG & Vector Database

Product Tools: Jira, GitHub, Confluence, MS Teams.

Soft Skills: Program Management, Leadership, Communication, Teamwork, Problem-Solving, Time Management, and Critical Thinking.

WORK EXPERIENCE

Cloud and AI Engineer Intern | State Street | Boston, USA

June 2025 - August 2025

- Managed delivery of an **AI chatbot project** using Azure AI Foundry; coordinated Logic Apps workflow and Teams integration for AWS Federation support.
- Championed **GitHub Copilot adoption**, engaging developers and tracking productivity improvements.
- Oversaw rollout of **Amazon Q across 44 AWS accounts**, ensuring stakeholder enablement and successful adoption.
- Coordinated validation of Terraform modules and OPA policies with security teams, reducing delivery risks.

Research Assistant | Quinnipiac University | Hamden, Connecticut

August 2025

- Led **SPARK framework project** (Generative AI + RAG) as a product initiative, coordinating design, experimentation, and deployment on AWS Bedrock & GCP.
- PrivAlect development** (privacy threat model platform), aligning MITRE PANOPTIC standards with research and product use cases.
- Coordinated cross-functional collaboration on **Quantum-Classical algorithm benchmarking**, aligning outcomes with academic and enterprise research goals.

Graduate Assistant | Quinnipiac University | North Haven, Connecticut

August 2024

- Assisted professors and staff with projects, resolved student queries, and automated workflows, reducing manual clerical work by 60% through scripting and process optimization.

DevOps Engineer | Ini8 Labs | Bangalore, India

January 2021 – Jun 2024

- Oversaw delivery of Infrastructure-as-Code and DevSecOps implementations for client projects.
- Facilitated **Agile sprint planning**, mentored junior engineers, and produced documentation for sustainable knowledge transfer.
- Coordinated release schedules and stakeholder expectations during multi-cloud migrations.

Senior SaaS Infrastructure Engineer | Zycus Pvt. Ltd. | Mumbai, India

January 2021 – Jun 2024

- Directed cloud infrastructure programs** across AWS, Azure, and VMware, overseeing design and deployment of services (EC2, EKS, VPC, IAM, Route 53, CloudFront) for mission-critical applications while driving cost optimization strategies.
- Led automation and AI-driven transformation**, delivering 80% IT task reduction and improving system availability by 70% through Generative AI agents (Azure OpenAI & GCP).
- Managed Kubernetes modernization initiative**, migrating and optimizing 50+ clusters; coordinated CI/CD pipeline rollout and middleware automation, reducing manual intervention by 50%.
- Coordinated enterprise security and disaster recovery efforts**, including ransomware recovery, strengthening defenses with CyberArk, Zscaler, and CrowdStrike, and implementing enterprise-grade backup systems.
- Delivered multi-cloud architecture & SRE improvements**, integrating AWS, Azure, and GCP for high availability, and enhancing reliability with proactive monitoring (OpsGenie, CloudWatch, ELK), cutting incident resolution times.
- Collaborated with cross-functional teams** (product, infra, security, operations) to align infrastructure upgrades with organizational goals, ensuring smooth change management and stakeholder adoption

ACADEMIC PROJECTS

SPARK Plug and Play Framework – Generative AI | Hugging Face Models, Python, Bedrock, Nvidia and GCP

May 2025

- Built an AI Tutor platform providing 24/7 academic support across multiple subjects using generative AI, LLMs, and RAG. Designed and integrated knowledge ingestion, subject-specific tutoring, and interactive Q&A with scalable deployment on AWS Bedrock & GCP.

PrivAltect: Privacy Management - Generative AI | Python, Bedrock, MITRE PANOPTIC, LINDDUN

May 2025

- Developed **PrivAltect**, an AI-powered platform that transforms user system descriptions into threat-aware architectures using LINDDUN, ThreatModeler, and MITRE PANOPTIC, leveraging Amazon Bedrock for real-time privacy risk analysis.

Database Convertor | Python, AWS and Flask

December 2024

- Built a web app to transform datasets across AWS databases (RDS, DynamoDB, Neptune, Document DB) via a user-friendly UI. Configured the system on Linux servers, automating database migration and ensuring seamless functionality

Grover's Algorithm for String Search and Its Practical Limits

August 2025

- Implemented and analyzed **Grover's quantum search algorithm** for string matching, benchmarking speedups against classical search approaches on IBM Qiskit and Google Cirq simulators.

CERTIFICATION, RESEARCH PAPER & EXTRACURRICULAR ACTIVITIES

- **Generative AI:** SPARK – Smart Plug-and-play AI framework for RAG & Knowledge, **Published in IEEE.** October 2025
- **Quantum Computing:** Grover's Algorithm for String Search and Its Practical Limits, **Published in SEET, Springer.** August 2025
- Single Sign On, **Published in IRJET.** April 2020
- Langchain for LLM Application Development Certified, DeepLearning.AI June 2025
- Certified Kubernetes Application Developer – **CKAD** January 2025
- Certified Kubernetes Administrator - **CKA** March 2024
- **AWS Certified Solution Architect.** November 2022
- Single Sign On, **Published in IRJET.** April 2020
- REDHAT Certified System Administrator **RHCSA** - apshah/fcsllp/2018-19/rhcsa-003. April 2018
- **IEEE Student Group:** Active contributor to academic and professional initiatives.
- **Quantum Research Group:** Collaborating on projects with IBM and Google Quantum platforms.
- **I am an active member of the International Student Advisory Board and OISS,** contributing to student initiatives and academic improvements, and engaged in various extracurricular activities, fostering leadership, teamwork, and community involvement.