**JAY PATEL**

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**EDUCATION**

**Stevens Institute of Technology, Hoboken, NJ** August 2022- May 2024

Master of Science – Computer Science **GPA: 3.71/4.0**

**Gujarat Technological University, Gujarat** August2017- July 2021 Bachelor of Engineering – Computer Engineering **GPA: 8.39/10.00**

**SKILLS**

**Programming Languages & Frameworks**: Python, JavaScript, SQL, Golang, C#, .NET, Django, Node.js, React.js

**Software and Tools:** Amazon Web Services, Azure, Git, Docker, Shell Scripting, Terraform, Jenkins, Ansible, Kubernetes, Postman, PostgreSQL, GitHub Actions, GitLab

**Technical Skills:** DevOps, Cloud Computing, Infrastructure Management, Data Engineering and Mining, Web development

**Certifications**[: AWS Certified SysOps Administrator – Associate](https://www.credly.com/badges/ba1176fc-f057-4524-9c09-1af8f90ae263), [HashiCorp Certified: Terraform Associate (003)](https://www.credly.com/badges/03d75a7b-fb8b-4ece-a28d-bd0adf5b03c5), [Azure Developer Associate (AZ-204)](https://learn.microsoft.com/en-us/users/jaypatel-9846/credentials/16987b1b5ae7c946), [Azure Data Fundamentals (DP-900)](https://www.credly.com/badges/adb8f5e2-83c8-467e-ad3c-cb8edceb5c18), [MLOps Specialization](https://coursera.org/share/551a84300ec03788832fb8d7fca4778e), [AWS Cloud Support Associate](https://www.coursera.org/account/accomplishments/professional-cert/ENSPL9A28DWF)

**WORK EXPERIENCE**

**Fresh Gravity, Pune, India** December 2021 – June 2022

Analyst

* Led a Cloud Cost Optimization initiative, reducing expenses by 25%
* Developed Python Lambda functions using Boto3 for automated AWS resource cleanup, integrating AWS CloudWatch Logs for real-time monitoring and analysis of cleanup processes
* Actively managed, improved, and monitored cloud infrastructure on AWS, including EC2, S3, and RDS, ensuring backups, patches, and scaling were efficiently handled
* Developed a functionality to push messages to multiple third-party applications using AWS Lambda
* Migrated applications and associated databases from on-premise to AWS, reducing costs by 50%
* Developed Docker images from scratch, customized base images from existing configurations and maintained image repositories
* Implemented Terraform modules and scripts to automate provisioning of cloud resources in AWS environments for blue/green deployments, achieving a 45% reduction in provisioning time

**Tecnoprism, Vadodara, India** June 2021 – December 2021

Associate Software Engineer

* Spearheaded the development and deployment of software bots using Automation Anywhere A360 , automating complex business processes and reducing processing time by 30% while decreasing error rates by 50%
* Led RPA initiatives, including automating invoice processing, increasing efficiency by 40% and cutting errors by 60%, and implementing an SAP bot for a pharmaceutical company, reducing processing time by 25% and inventory discrepancies by 70%
* Created virtual BOTs using Automation Anywhere for efficient automation of software applications and process optimization
* Collaborated with stakeholders to analyze business processes, designed automation solutions using RPA tools, and integrated APIs to streamline workflows

| **ACADEMIC PROJECTS** |  |
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**[Magicdot Solar](https://magicdot.jaypatel.link/)**

* Developed a comprehensive web application for Magicdot Solar, a solar energy solutions company. Leveraged a modern tech stack (Node.js, Express.js, MongoDB, Tailwind CSS) to create user-friendly dashboards for both employees and customers
* The application streamlines solar energy operations by encompassing functionalities such as task handling, customer support, sales, contract management, photo upload, emergency support, solar panel maintenance, and crew task management
* Orchestrated a robust CI/CD pipeline using Jenkins Declarative Pipeline, ensuring efficient development and deployment
* Designed and implemented various CI/CD stages, including automated builds, static code analysis for quality assurance (SonarQube), Docker image creation, and deployment to Kubernetes (AWS EKS)
* Leveraged ArgoCD for continuous delivery, automating deployments and maintaining consistency across environments
* Enhanced system visibility by configuring Prometheus and Grafana to monitor the Kubernetes cluster and Jenkins instance
* Employed Infrastructure as Code (Terraform) to automate infrastructure creation and provisioning on AWS

[**AWSDriftGuard**](https://github.com/jay-1799/AWSDriftGuard)

* Created a CLI-based tool using Python to detect drift between AWS infrastructure and Terraform state files
* Designed a resource-drift detection engine that parses AWS resources (EC2, S3, RDS, IAM Roles, etc.) and compares them with Terraform state files to highlight discrepancies
* Integrated Slack API for automated notifications, enabling seamless reporting of drift to relevant teams via Slack channels
* Developed a comprehensive drift report generator in Python, providing clear and concise output for detected infrastructure drifts
* Optimized tool functionality to be run in both "detect" mode (console output) and "report" mode (Slack integration)