

# VISHAL DAMODHARAN

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## SKILLS

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<b>Programming/Scripting Languages</b>	Python, Bash, Golang, JavaScript, Java
<b>Databases</b>	MySQL, PostgreSQL, Oracle, MongoDB
<b>Source Control &amp; Automation Tools</b>	GitHub, CircleCI, Terraform, Atlassian, Kafka, Jenkins
<b>Container Orchestration</b>	Kubernetes, Helm, Docker, Kubernetes Operations (kops), AWS ECS

## WORK EXPERIENCE

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**Devops Engineer** CD Data, Wyoming Jun 2022 - present

- Mitigated scalability challenges through auto-scaling implementation, reducing operational overhead, and ensuring uninterrupted performance, resulting in a 30 percent reduction in downtime during peak traffic periods.
- Responded to a security vulnerability with rapid action, patching vulnerabilities, and enhancing security measures, safeguarding sensitive data against breaches.
- Managed a large-scale database migration, orchestrating data transfer, minimizing downtime, and enhancing database performance, and improvement in query response times.
- Improved team efficiency by restructuring workflows, implementing Agile methodologies, and fostering collaboration, leading to a 20 percent reduction in errors.

**Software Development Engineer (Devops)** Esper.io, Bellevue Jul 2021 - Jun 2022

- Pioneered the creation of an internal data pipeline, aggregating device metrics into a centralized Redshift database and enabling real-time visualization in Quicksight, enhancing data-driven decision-making.
- Led a cross-functional team of cloud engineers in designing a device simulation using Golang, and oversaw the automation and deployment of a fleet of devices, facilitating efficient communication and message transmission with the dashboard.
- Played a pivotal role in architecting and setting up the infrastructure for deploying an over-the-air update system for the company's managed OS on GCP, ensuring seamless and secure updates for all devices.
- Developed a high-performance streaming service to deliver files and applications from S3 using Global Accelerator, ALB, and EC2, providing users with fast, reliable access to resources via a static IP address.
- Efficiently managed project workflows and communication, utilizing JIRA for task organization, conducting daily meetings with the manager to report progress, and facilitating feedback exchange using Slack and Zoom, enhancing team collaboration.

**Software Engineer** Open Water Accelerator, Menlo Park, CA Sep 2020 - Dec 2020

- Led a cross-functional team in developing a RESTful API for the Python/Flask web application, enhancing its functionality and enabling data retrieval and manipulation.
- Implemented CI/CD pipelines using Jenkins for automated application deployment and continuous integration, reducing manual intervention and improving deployment efficiency.
- Collaborated with data scientists to integrate machine learning models into the application, enhancing its data processing capabilities and enabling predictive financial analytics.
- Implemented monitoring and alerting solutions using AWS CloudWatch, ensuring proactive identification and resolution of server issues, minimizing downtime and improving application reliability.

## EDUCATION

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Northeastern University, Boston, MA	May 2021
<b>Master of Science in Computer Systems Engineering, Internet of Things Specialization</b>	GPA: 3.54/4
SRM Institute of Science and Technology, Chennai, India	May 2018
<b>Bachelor of Technology, Electronics and Communication Engineering</b>	GPA: 8.3/10

## CERTIFICATIONS

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- Certified Kubernetes Application Developer (CKAD) Aug 2023 - Aug 2026