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|  |  | Aswadh Puthen Veede  Devops Engineer |
| Profile Dynamic DevOps Engineer with hands-on experience in cloud infrastructure, CI/CD pipelines, and container orchestration. Skilled in automating deployments and maintaining scalable, reliable systems using Azure, Docker, and Kubernetes. Proficient in Infrastructure as Code (IaC) with Terraform and Ansible, with a strong focus on monitoring, performance, and system resilience. Passionate about bridging development and operations through effective collaboration and automation. Contact PHONE:  +79234440453  WEBSITE:  https://aswadhpv.github.io/  EMAIL:  [aswadhputhenveede@gmail.com](mailto:aswadhputhenveede@gmail.com)  SOCIAL:   * [GitHub](https://github.com/Aswadhpv) * [LinkedIn](https://www.linkedin.com/in/aswadh-puthenveede-95926120b) * [Telegram](https://www.t.me/Aswadhpv)  Languages English (Native)  Russian (Intermediate)  Hindi (Native)  Malayalam (Native)  Tamil (Native) |  | EDUCATIONNational Research Tomsk State University [Software Engineering]  Sep 2025 – Present  4.8 Overall GPA, Have made a Full stack Website called Reverb for Coursework. Certifications & Courses  * **Microsoft Certified Course: Azure Administrator Associate**  Microsoft Certified Course: Designing and Implementing Microsoft DevOps SolutionsDocker Certified Associate (DCA) (in progress)Kubernetes for DevOps Engineers (Udemy / Coursera)Terraform Associate (HashiCorp Certified) (in progress)**SKILLS** Cloud & Infrastructure: Azure, AWS (Basics), Kubernetes, Docker, Yandex Cloud, Terraform, Ansible, Prometheus, Grafana, Nginx, Linux (Ubuntu)  CI/CD & Automation: Azure DevOps, Jenkins, GitHub Actions, GitLab CI, Shell/Bash Scripting, YAML Pipelines  Development & Tools: Python (Flask, FastAPI), Node.js, React, REST APIs, PostgreSQL, Redis, MongoDB  Monitoring & Security: Azure Monitor, ELK Stack, SonarQube, OWASP, Role-Based Access Control (RBAC)  Version Control & Collaboration: Git, GitHub, Agile/Scrum, Jira  Languages: Python, C++, C#, JavaScript, Go, Kotlin, HTML and CSS |

## Projects

#### Reverb — Cloud-based Audio Collaboration Platform (Full Stack Project)

[Technologies: React, Node.js, Flask, Docker, Azure, Nginx, MongoDB, Python]

* Designed and deployed a music collaboration platform enabling users to upload, edit, and mix audio in real-time using Flask-based microservices.
* Integrated cloud-based processing for karaoke-style effects and plugin rendering using containerized Flask services.
* Implemented CI/CD pipelines via GitHub Actions and Azure DevOps, automating build, test, and deployment.
* Deployed production workloads to Azure Kubernetes Service (AKS) for scalability and resilience, with load balancing via NGINX Ingress.
* Set up monitoring and logging using Prometheus, Grafana, and Azure Monitor.]
* **Virtual Manager for DevOps Cloud System — Cloud VM Orchestration Platform (in Progress)**

[Technologies: Python, FastAPI, Ansible, KVM, REST API, Docker, Prometheus, Yandex Cloud, Virtual Box]

* Developed a private cloud management API to dynamically create, configure, and manage virtual machines across multiple physical servers.
* Implemented RESTful APIs for VM lifecycle operations (create, start, stop, delete, configure network).
* Automated provisioning and network configuration using Ansible and Terraform, enabling on-demand VM allocation for students via browser access.
* Optimized VM provisioning by maintaining a pre-warmed pool of instances, reducing deployment delay from ~60s to <10s.
* Designed system monitoring with Prometheus metrics and Grafana dashboards, ensuring efficient server utilization.

## Professional experience

#### Tomsk State University — Software Engineer Intern

#### Reverb – Full-Stack Music Collaboration Platform

Academic & Personal Project | Cloud & Audio Processing | 2024–2025

* Developed a cloud-integrated web platform for collaborative audio editing using Flask and React.
* Implemented CI/CD pipelines with automated testing and container-based deployment to Azure Cloud.
* Configured container orchestration and scaling using Docker Compose → Kubernetes migration strategy.

#### Virtual Manager – DevOps Cloud System (in progress)

Thesis Project | Yandex Cloud Infrastructure | 2025

* Designed and implemented a Virtual Machine Manager system to automate VM lifecycle management (create, monitor, and terminate VMs) using Yandex Cloud Compute API.
* Deployed multi-tier architecture with Terraform for infrastructure as code and Dockerized services for scalability.
* Integrated CI/CD pipelines with GitHub Actions to automate testing, container builds, and cloud deployments.
* Implemented secure SSH access, load balancing, and monitoring through Prometheus and Grafana dashboards.
* Applied DevOps best practices—continuous integration, delivery, and infrastructure automation—for optimized cloud resource utilization and reliability.