

# AA YUSHMAAN SHUKLA

DevOps Engineer

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## PROFESSIONAL SUMMARY

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Results-driven DevOps Engineer with 2+ years of experience architecting and operating high-availability infrastructure across cloud-native and hybrid environments. Proven track record of delivering measurable outcomes: 85% reduction in API latency, 75% cost savings through legacy system modernization, and 40% improvement in incident response time. Adept at building enterprise-grade CI/CD pipelines, Infrastructure as Code (Terraform), container orchestration (Docker/Kubernetes), and full-stack observability (Prometheus, Grafana, Open Telemetry). Experienced operating mission-critical platforms at scale — including a 4,500+ screen nationwide deployment — with the rigor, security posture, and reliability standards required by large-scale enterprise environments.

## PROFESSIONAL EXPERIENCE

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**DevOps Engineer** | **Enpointe IT Services** · Mumbai, India *Feb 2025 – Present*

- Owned end-to-end infrastructure for Arzen, a mission-critical digital signage platform spanning 130+ cinema locations and 4,500+ screens nationwide
- Engineered a single-command deployment framework using Terraform (IaC) and Bash, eliminating manual provisioning and enabling full environment duplication (dev → staging → prod) in under 15 minutes — reducing deployment lead time by ~70%.
- Replaced legacy Pads4 systems with a modern, API-first platform, reducing infrastructure costs by 75% while adding real-time content sync, dynamic CMS, and seamless third-party API integrations.
- Led DevOps for Retello, a live shopping AI platform: optimized real-time chat API response time by 85% through connection pooling, caching strategy overhaul, and async pipeline redesign.
- Implemented full-stack observability (Prometheus + Grafana dashboards + alerting), cutting mean time to detection (MTTD) and reducing incident response time by 40%; established runbooks and on-call workflows aligned with enterprise-grade reliability standards.
- Managed multi-cloud infrastructure across AWS and Hetzner Cloud, enforcing least-privilege IAM policies, network segmentation, and automated compliance checks to meet enterprise security requirements.
- Bootstrapped the DevOps function from the ground up: implemented CI/CD pipelines (GitHub Actions + Jenkins), containerization (Docker), and environment parity across 3 product lines.
- Established monitoring baselines and alerting thresholds using Prometheus and Netdata; reduced noise-to-signal ratio in alerts by 60% through tuned alert rules and aggregation policies.
- Collaborated with cross-functional product and engineering teams to translate business SLAs into infrastructure reliability targets, enabling data-driven capacity planning.

**Industrial Automation Engineer** | **Shaping3D** · Mumbai, India *Jan 2021 – Jan 2024*

- Designed and deployed industrial-scale 3D printing systems with multi-gantry architecture; engineered embedded firmware for high-precision motion control, reducing print cycle time by 60%.
- Built closed-loop control systems integrating stepper/servo motors, thermal sensors, and load cells; achieved <1.5mm dimensional accuracy across production runs.
- Developed real-time telemetry pipelines for sensor data (IMUs, temperature, force), enabling predictive maintenance and reducing unplanned downtime by 25%.

**Professor — Computer Science** | **G-Tutorials** · Mumbai, India *Sept 2019 – Jan 2021*

- Delivered structured curriculum in C++, algorithms, and computer science fundamentals to cohorts of 30+ students; achieved 95% course completion rate.
- Designed project-based STEM learning modules that improved student engagement and practical coding proficiency, several students proceeding to engineering programs.

## NOTABLE PROJECTS

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### Instagram API Interception & Analysis | Python · Android · MITM Proxy

- Configured a local MITM proxy environment with a patched Android application to intercept and analyse undocumented API calls; demonstrates deep understanding of network protocols, TLS inspection, and security research methodology.

### Web-bot | Rust · Typescript | <https://github.com/Aayushmaan-shukla/web-bot>

- Created a personal AI assistant, seamlessly reading the content of any webpage you are currently on and allowing you to ask questions about it directly from a sleek browser side panel.

### Log-viewer | Javascript | <https://github.com/Aayushmaan-shukla/viewpmtoo.git>

- Created a containerized service that displays the pm2 logs of services that are running on a system on frontend port without creating any extra files. (docker pull anonymousumai/viewpmtoo:latest)

## TECHNICAL SKILLS

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<b>Cloud &amp; Infra</b>	AWS (EC2, S3, IAM, VPC, SecretsManager), Oracle Cloud (OCI), Hetzner Cloud — multi-cloud architecture & cost governance
<b>IaC &amp; Automation</b>	Terraform, Bash scripting — full lifecycle infra provisioning, environment templating, GitOps workflows
<b>Containers &amp; Orchestration</b>	Docker, Kubernetes — container strategy, service deployment, rolling updates, resource limits
<b>CI/CD</b>	GitHub Actions, Jenkins, GitLab CI — pipeline design, branch strategies, artifact management, deployment gates
<b>Observability</b>	Prometheus, Grafana, OpenTelemetry, Netdata — dashboards, alerting, SLI/SLO definition, incident runbooks
<b>Languages</b>	Python (scripting, automation, APIs), Rust (systems/networking), Embedded C/C++ (firmware, IoT)
<b>Databases</b>	PostgreSQL, MySQL, Redis, MongoDB — schema design, migrations, backup/recovery, performance tuning
<b>Security</b>	IAM least-privilege, network segmentation, TLS inspection, vulnerability triage, compliance automation
<b>Hardware &amp; IoT</b>	Motion control (stepper/servo), IMUs, thermal sensors, load cells — embedded systems

## EDUCATION

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### Bachelor of Science in Computer Science 2020 - 2023

Thakur College of Science and Commerce, Mumbai University **GPA: 9.7 / 10**