

PETER SAMY

DEVOPS ENGINEER | CLOUD ENGINEER

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Passionate and detail-oriented DevOps Engineer with a strong background in DevOps, Linux system administration, and cloud computing. Experienced in Infrastructure as Code (IaC), automation, and observability, with more than 3 years of hands-on expertise in, managing Linux environments, troubleshooting complex distributed systems and managing projects, both alone and inside a team. Adept at contributing to team-driven solutions for highly available services, I am motivated to leverage my skills within your team.

Skills

- **Infrastructure as Code (IaC):** Terraform, Ansible, CloudFormation
- **Observability & Monitoring:** Prometheus, Grafana, Kibana
- **DevOps & Automation:** Jenkins, TravisCI, Azure Devops Docker, Kubernetes, CI/CD pipelines, GitOps
- **Linux & Networking:** Ubuntu, Debian, Red Hat, Nginx, firewall configuration, OVPN
- **Cloud Technologies:** AWS (IAM, EC2, S3, RDS, Route 53, CloudFormation), Azure, Linode
- **Programming Languages:** Python, Bash, Java, SQL, C#, C, C++, NodeJS
- **Frameworks and Tools:** Hyperledger Fabric, Django, AngularJS, ExpressJS, GitHub, GitLab
- **Languages:** English (Fluent), Arabic (Fluent)

Work Experience

Freelance Jobs

DevOps and Software Engineer | Remote | June 2020 – Present

- **Automated Internal React UI Library:** Automated the deployment and management of an internal React UI library using Red Hat, Jenkins, Git (private repository), and Node.js.
 - **Designed a CI/CD pipeline** that integrates webhook triggers to initiate automated builds, tests, and deployments upon code pushes to a private GitHub repository. This pipeline ensures immediate feedback by executing tests and, upon success, publishing the updated npm package to the private Verdaccio registry, streamlining the deployment process.
 - **Access control and user management** with Verdaccio to maintain the privacy of the repository and package, securely handling secrets.
 - **Automation scripts** including Bash scripts, that installed prerequisites, enabling the app to be fully deployable in no time and significantly reducing setup time and minimizing errors.
- **Automated Deployment Pipelines:** Developed CI/CD pipelines leveraging Azure DevOps, Docker, and Git for automated builds, unit tests, and deployments, significantly reducing deployment times and enhancing code reliability for multiple web app using frameworks like php and springboot.
- **Infrastructure Automation and IaC:** Implemented Infrastructure as Code (IaC) solutions with Terraform, reducing provisioning time and minimizing configuration drift and increasing reliability.
- **Linux Server Administration:** Managed on-premises Ubuntu servers for file backups and retrieval using shell scripting, automated scheduling, and monitoring to ensure high system reliability and availability.
- **VPN Configuration:** Set up secure custom VPN solutions on AWS EC2 with OpenVPN, optimizing cloud access while reducing costs.
- **On-Premises Local Ubuntu Server:** Configured an on-premises Ubuntu server for automated file backup and retrieval. Implemented shell scripts for scheduling and executing backups, and integrated monitoring tools to

ensure system reliability. This setup enhanced data accessibility and availability in the event of disasters, data loss, or malicious attacks, demonstrating strong DevOps principles in server management and automation.

- **Optical Character Recognition (OCR) Software:** Developed OCR software in Java, receiving 5-star feedback. Automated text extraction from images, improving client data processing efficiency.

University Projects

Computer Engineer | Cairo, Egypt | Oct 2019 – June 2024

- **Blockchain Health Insurance System:** Architected a blockchain-based health insurance system using Hyperledger Fabric, NodeJS, AngularJS, monitored the system using Prometheus, setup automated alerts and created a dashboard with Grafana to display the metrics and performance insights, increasing system reliability and response time to incidents. Leveraged Docker containers to streamline deployment and manage microservices. This solution significantly enhanced claims processing efficiency and strengthened data security through a decentralized architecture.
- **Computer Vision Software for UAVs and ROVs:** Developed advanced computer vision algorithms using OpenCV and Python, contributing to my university's robotics team's success in competitions.
- **Secure Chat Application:** Designed and implemented a Java-based chat application with secure authentication features, ensuring encrypted communication between users.

Education

- [Arab Academy for Science, Technology and Maritime Transport](#) | Cairo, Egypt
B.S.E. in Computer Engineering | Oct 2019 – July 2024
- **New Ramses College Schools IGCSE** | Cairo, Egypt
High School | Sep 2013 – June 2019

Additional Experience

- **DevOps:** Completed multiple courses in Docker, Kubernetes, and networking.
- **AWS Cloud Practitioner CLF-C02:** Self-studied through a Udemy course.
- **Blockchain:** Completed multiple courses including Hyperledger Fabric and fintech.
- **Robotics Club:** Active member contributing to award-winning projects in university-level competitions.
- **Volunteering:** Developed leadership and teamwork skills at [Wadi Sports Camp](#) and [Kids Games Camp](#).
- **IELTS Certification:** Scored 7.0, demonstrating strong English language proficiency.
- **Google Certified Digital Marketer:** Completed Google's Digital Garage course.

Hobbies

- **Hiking**
- **Camping**
- **Reading**