Irwin A

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WORK EXPERIENCE

Senior DevOps Engineer | April 2023 - present
Equipo Business Solutions

- **Optimized AWS Infrastructure:** Strategically re-architected and optimized the product's infrastructure on **AWS**, achieving **30–40% cost reduction** through instance right-sizing, Spot optimization, and storage tiering — while **fortifying network security** using **VPC segmentation, Security Groups, and IAM least-privilege controls**.
- **High Availability & Fault Tolerance:** Improved **product reliability and availability** via **dynamic horizontal scaling** across **ECS and EC2 Auto Scaling Groups**, ensuring **zero-downtime deployments** and enhanced **user experience** under variable workloads.
- **Data Automation with Python:** Designed and developed **Python automation pipelines** to streamline **secure data transfers** from customer servers using **SFTPs, peer-to-peer VPN tunnels and S3**, reducing **onboarding time by 200%+** and minimizing manual intervention.
- **Customer Engagement & Adoption:** Served as the **lead developer** in technical discussions with potential customers — delivering **architectural insights**, demos, and support that increased **product adoption by over 20% (AWS WAF)**.
- **Cloud-Native Product Modernization:** Architected and implemented a **cloud-native version** of the product on **Kubernetes**, fully **containerized** and **packaged as a Helm chart** for simplified deployment, distribution, and version control.
- **Scalable CI/CD Implementation:** Established **CI/CD pipelines** at scale using **GitHub Actions**, **Jenkins**, and **ArgoCD**, enabling **centralized management of multiple Kubernetes clusters** from a single control plane with streamlined rollbacks and automated promotions.
- **Observability & Monitoring Stack:** Integrated **Mimir**, **Tempo**, **Loki**, and **Grafana** for comprehensive **metrics, traces, and log aggregation**, and introduced **Grafana Alloy** for unified telemetry collection and forwarding.

- **Container Platform Modernization:** Enhanced platform consistency by migrating workloads to **Amazon ECS** for stateless services, enabling simplified scaling, task placement strategies, and secure service-to-service communication via **Service Connect with AWS PCA.**.

Cloud Support Engineer | May 2021 - April 2023
Incedo Inc.

- Developed an redis cache flush for elastic cache using lambda language python
- Monitored AWS environments using **CloudWatch** to ensure performance and availability. Supported **EC2, S3, RDS**, and networking components, troubleshooting issues with engineering teams. Automated monitoring and alerting for **proactive issue detection** and improved system reliability.

PROJECTS

LGTM Stack with k0s (cilium) View in GitHub
- Built a fully integrated **Loki–Grafana–Tempo–Mimir observability stack** on **k0s** with **Cilium CNI** for zero-trust networking and eBPF-based observability.

VPN (wireguard) View in GitHub
- Implemented a **peer-to-peer VPN network** using **WireGuard**, enabling secure, low-latency communication between distributed nodes across AWS environments. using docker-compose

Secure Transit App View in GitHub

- Developed a **Python-based secure file transfer service** with **end-to-end encryption** and dynamic key exchange, supporting data integrity over VPN tunnels or Bastion Servers.

Loki-Django-Logger View in GitHub

- Created a **production-ready logging library** for **Django applications**, exporting structured logs directly to **Grafana Loki** or **Grafana Alloy** for unified log aggregation.

CERTIFICATIONS

Udemy - SAA (2025)

EDUCATION

Bachelor of Engineering (B.E.) - *ECE*   Aug 2014 - April 2018

CSI Institute of Technology (India)

SKILLS

DevOps | Cloud | AWS | Kubernetes | Docker | Terraform | CI/CD | GitOps | Argo CD | Helm | Kustomize | GitHub Actions | Jenkins | Ansible | Linux | Bash | Python | FastAPI | Observability | Prometheus/Mimir | Grafana | Loki | Cilium | WireGuard | Automation| Monitoring | Security | Scalability | Team Collaboration | Development | Go | Wireguard