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# Satya Praneet Challapilla

DevOps Engineer

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A highly motivated and detail-oriented DevOps Engineer with expertise in cloud platforms, automation, and infrastructure as code. Adept at optimizing deployment pipelines, enhancing system reliability, and enabling rapid development cycles. Seeking to contribute technical excellence and a proactive mindset to a forward-thinking technology organization.

## SKILLS

**Programming and Scripting** Bash, Git, ~~TeX~~, YAML, C  
**DevOps and Monitoring** CircleCI, Docker, DataDog  
**Cloud and Infrastructure** AWS, Terraform, Kubernetes

## TECHNICAL EXPERIENCE

**IT-DevOps Engineer** Jul 2022 — Jul 2024  
*Tray* Remote

- Configured AWS accounts, managed EC2 nodes, ECS clusters, and RDS setup, restoration, and performance tuning for load testing.
- Set up logging/monitoring systems through Cloudwatch, Opensearch, and DataDog, **reducing application downtime by 50%**.
- Devised deployment scripts integrated with Slack, **improving deployment times by 75%**.
- Configured **CI/CD pipelines** through CircleCI for seamless code integration and deployment.
- Created Infrastructure as Code templates using **Terraform** to scale and onboard new clients efficiently.
- Supported **PCI compliance documentation** and handled security-related tasks for a secure infrastructure.
- Ported organization code to a MonoRepo with minimal disruption.
- Facilitated **cross-team communication** through knowledge-sharing sessions and documentation.
- Automated IT tasks for intern and new employee laptop setups using scripting.

**Cloud Engineer** Jul 2021 — Nov 2021  
*Searce Cosourcing Inc.* Remote

- Part of the Pre-sales technical team, creating SOWs for infrastructure migration to Cloud/Hybrid environments.
- Conducted analysis and cost estimation of existing infrastructure for migration to Google Cloud.
- Targeted potential Indonesian customers for server migration projects as part of the SEA Indonesia team.

## EDUCATION & CERTIFICATIONS

**Bachelor of Engineering, Electronics and Instrumentation Engineering**, *Birla Institute of Technology and Science, Pilani* Aug 2021

- AWS Cloud Practitioner Certification** Jan 2024
- GCP Associate Cloud Engineer Certification** May 2022

## PROJECTS & ACTIVITIES

**Deployment Automation** 2022  
*Tray* Remote

- Developed a semi-automated deployment process using bash scripts to pick compiled builds from S3, transfer them to target nodes, and deploy to Apache Tomcat.
- Implemented version control with tags on builds for proper accountability in deployments.
- Created a CI/CD pipeline using GitHub Runner for a JavaScript-based application on Kubernetes, with versioning and deployment strategies outlined for both development and production environments.

**Personal HomeServer** 2023  
*Self-initiated*

- Built a container cluster using Portainer, running on a Raspberry Pi, with various containerized applications for personal use.
- Managed applications for monitoring (cameras), document/media storage, and on-demand Audiobook serving.
- Integrated Mobileraker with my 3D printer for remote control, as well as a connected webcam for livestreaming and timelapse creation.

**3D Printing System with Klipper Firmware** 2024  
*Self-initiated*

- Customized the Ender3V2 3D printer by installing Klipper firmware to enhance performance and precision.
- Integrated additional hardware, including custom sensors for filament tracking, movement accuracy and automated levelling.
- Wrote custom Klipper code to support the new hardware, fine-tuning the printer's capabilities for improved print quality.
- Designed and printed two stereo 3-way speaker cabinets using PLA, powered by a KABD-4100 DAC+Amp, while customizing audio profiles for enhanced sound performance.