

Pedro Tae Young Chang

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Summary

I'm a DevOps Engineer with hands-on experience in automating deployments using GitOps FluxCD, managing Kubernetes clusters on Talos Linux, and securing cloud environments with Azure Key Vault and External Secrets Operator. I'm proficient in deploying and scaling applications with Kubernetes, managing databases using CloudNative PG, and ensuring system reliability through monitoring with Prometheus and Grafana. I'm eager to leverage my technical skills, problem-solving abilities, and collaborative mindset to contribute to a forward-thinking team driving innovation in software delivery.

Experience

DevOps Associate, KubeCraft – Remote

Dec 2024 – present

- Designed and maintained a sophisticated self-hosted infrastructure utilizing GitOps methodologies and modern DevOps practices.
- Published complete infrastructure as code publicly at <https://github.com/pedrotchang/homelab>.
- Built and managed a bare metal Kubernetes cluster powered by Talos Linux, FluxCD, and Omni for comprehensive cluster management.
- Implemented Cilium as the primary CNI solution across all clusters, prioritizing its advanced networking capabilities over traditional options like Flannel.
- Deployed and managed CloudnativePG operator for PostgreSQL database orchestration, enabling reliable database services for applications.
- Successfully deployed Linkding as a self-hosted bookmark management solution with external PostgreSQL database connectivity - <https://linkding.seyzahl.com>
- Configured ExternalDNS and Cloudflare Tunnel for automated DNS management and secure external access to services.
- Enhanced security through implementation of External Secrets Operator integrated with Azure Key Vault for centralized secrets management.
- Established efficient CI/CD pipelines using FluxCD and Flux Operator for GitOps-based deployment, configuration management, and continuous reconciliation.
- Implemented infrastructure monitoring with Grafana and Prometheus.
- Automated dependency updates across applications using Mend Renovate Bot for consistent maintenance and security patching.

IT Consultant, Brite Service Industries – Los Angeles

July 2024 – Dec 2024

- Collaborated directly with C-suite executives to design and implement strategic operational frameworks, resulting in a 25% enhancement in overall organizational performance through data-driven decision-making processes.
- Authored a detailed strategic plan that led to the successful acquisition of a \$300K contract with Mercy House; the plan included innovative approaches that are now standard practice within the organization.
- Crafted comprehensive pamphlets on Brite Service Industries and industry-specific topics, enhancing client comprehension by directly addressing top five most frequently misunderstood concepts within the service sector.
- Directed the adoption of new technologies such as Teams, Calendly, and Loom, overseeing the onboarding of these integrations to boost productivity and communication with over 150 clients.

Freelance, MediaX AI – Los Angeles

June 2024 – Feb 2025

- Designed an advanced faceless YouTube automation system, integrating AI tools with API including Claude.ai and Eleven Labs; streamlined content generation processes, reducing video production time by 40%.
- Implemented a robust automation solution for generating images and voiceovers directly from source materials, increasing output to 20+ videos weekly while enhancing overall production quality and consistency.
- Launched a series of Airtable workflows that automated repetitive tasks, reducing manual data entry time by 10 hours weekly and freeing up resources for more strategic initiatives, ultimately enhancing project delivery.

Projects

Kubernetes Homelab at Home on Prem

Feb 2025 – present

A self-hosted homelab built on baremetal using GitOps best practices powered by Kubernetes using Talos Linux, FluxCD, and CloudNativePG. Projects are public and can be viewed at <https://github.com/pedrotchang/homelab>.

- Successfully deployed Linkding self-hosted whilst connecting to external PostgreSQL database in an external Data cluster with ExternalDNS and Cloudflare Tunnel
- Implemented External Secrets Operator to link with Azure Key Vault.
- FluxCD CI/CD implementation for optimal GitOps with concurrent updating of apps using Mend Renovate Bot.

Give Water Give Life | Non-Profit Website

Oct 2022 – Nov 2022

- Drove a successful website enhancement initiative alongside product management and design teams, elevating traffic levels by 30% while ensuring functionality and user experience across all devices.
- Boosted outreach and produced donations by 10% to provide clean water to multiple villages.
- Facilitated over 15 cross-functional meetings with designers to ensure alignment on client requirements; revitalized communication processes, contributing to a 20% reduction in project timelines and improving team collaboration.

Skills

Languages: Python, Go, Ruby, JavaScript, HTML, CSS

Technologies: Kubernetes, FluxCD, Linux, Vim, Postgres, Rest-API, Git, GitHub, Jira, Notion, AI Tools

Additional: Portuguese (fluent), Spanish (conversational), Korean (conversational)

Education

Actualize Coding Bootcamp, Certificate in Web Development – Remote

Apr 2022 – July 2022

Completed a four-month full-stack web development bootcamp focusing on Ruby, Rails, JavaScript, Vue.js, API-driven development, Git, and team collaboration.

Loyola Marymount University, Coursework toward B.A. in Business Administration – Los Angeles, CA, USA

Jan 2019 – June 2019

Pasadena City College, A.A Degrees in Business, Natural Sciences, Humanities – Pasadena, CA, USA

Jan 2015 – June 2018