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Key Work Experience _____

Gotrade Pte Ltd

HEAD OF PLATFORM ENGINEERING

- Optimized infrastructure design, saving over 70% in monthly cost (100K USD), enabling scalable growth
- Accelerated CI/CD by more than 90% through custom P2P Nix-based runners
- Led successful migration to Kubernetes on EKS, improving platform agility by 40% and reducing operational overhead by 80%
- Standardized development workflow with Nix-first environments, boosting team productivity and slashing on-boarding time by 95%
- Increased system availability to 99.9% through implementing comprehensive Observability practices with LGTM Stack and OpenTelemetry
- Architected a high-performance ledger for fast high-volume trade processing using Kafka, peaking at 5000 TPS
- Evangelized IaC, containerization, and automated testing through weekly "MasterClasses," fostering a culture of innovation

ByteDance

SITE RELIABILITY ENGINEER

- Analysed, resolved and regressed alarms for TikTok's Live-Streaming CDN
- Crafted platform to manage multi-region multi-language multi-timezone on-call rostering that reduced roster configuration time by 50%
- Developed a distributed and stateless bot framework that minimized time taken to create a new bot by up to 98.5%
- Leveraged self-written framework to design platform to automate playbooks, speeding up alarm resolution by 60%
- Obtained sales lead worth USD10,000 annually for Lark product

Innosparks, ST Engineering

BACKEND ENGINEER

- Constructed healthcare platform for post-acute care for Singapore's Ministry of Health, tendering for SGD 5,000,000
- Led team to implement RESTful API server in .NET Core in C#
- Configured centralised monitoring environment (Application Insights) that result in 45% reduction in MTTR
- Composed CI/CD pipelines on AzureDevops with Azure and Docker that cut deployment overhead by 80%
- Devised a computer vision algorithm to extract patient's particulars from the Identity Cards, lowering patient on-boarding time by 40%

Skills

Programming Proficient | C#, Go, Typescript Fluent | Javascript, Nix Comfortable | C++, Rust, Java, Ruby, PHP Docker, Nix, Terraform, GitLab CI, AzureDevops, Azure, AWS, Digital Ocean, Ansible, Github Actions DevOps Back-end ASP.NET Core, Express, Nestjs, Gin, Ruby On Rails Front-end Svelte, Vue.js v2, Vite ,Webpack, Gulp.js CNCF Docker, vCluster, K3D, K3S, Kuma.io, Helm, ArgoCD, Ambassador, Kyverno, Traefik, Longhorn, ExternalSecrets **Observability** Prometheus, Grafana, Jaeger, Loki, Thanos, Mimir, Tempo, OpenTelemetry

Projects

CyanPrint

CREATOR

- A Rust-based CLI that empowers interns to kickstart projects without the complexity of configuration
- Restful API Server to host templates (EKS, vCluster, GitHub Actions, .NET Core)
- Landing Site to sign up for an account and browse for templates (Sveltejs, Cloudflare Pages)
- Fully automated pipelines to publish to System Package Managers (nix flakes, scoop, brew, apt, yum)
- and publish SDKS to Language Package Managers (pip, nuget, npm, cargo)

BunnyBooker

FOUNDER

- Envisioned, developed, deployed and maintained the platform, with SGD 3000 monthly recurring revenue
- · High-performance multi-component scraping engine to watch for ticket refunds (Redis Streams, Golang Channels)
- Restful API to interact with scrapping engine and databases (.NET, GitHub Actions, AirWallex, EKS)
- Landing Site to sign up, purchase, check availability of tickets (Sveltejs, Cloudflare Pages)
- Runs on next-generation modern infrastructure (ArgoCD, EKS, vCluster, KEDA)

Templating Platform https://cyanprint.dev

May. 2022 - Present

Singapore

Singapore

Singapore

Jan. 2021 - Dec 2021

Jul. 2018 - Jul. 2019

Automated Ticketing System

https://bunnybooker.com