Ernest **Ng**

Backend Engineer

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"To err is human; to refactor, divine."

Key Work Experience

ByteDance
Singapore

Site Reliability Engineer Intern
Jan. 2021 - Present

- Designed and deployed stack platform to manage multi-region multi-language multi-timezone on-call rostering
- Developed a distributed and stateless bot framework that reduced time taken to create a new bot by up to 98.5%
- Leveraging on self-written framework to design platform to automate playbooks
- Obtain sales lead for Lark product

Builderlytics
Remote, Singapore

Project Lead
Aug. 2019 - Dec. 2020

- Handled weekly client requirements and convert them into infrastructure and architectural designs
- Led a team of 25 from conceptualization to production
- Mentored development team in Agile SDLC best practices
- Trained hires SOLID principles and TDD to better facilitate Domain-Driven development
- Fully automated pipelines using modern DevOps tool and cloud infrastructures such as Docker Swarm, AWS and Ansible
- Manage remote working with collaboration tools such as pCloud, Notion and GitLab
- Deploy hardware Kubernetes cluster with Helm charts using K3S
- Setup centralized logging system with EFK
- Setup distirbuted tracing and monitoring system with Grafana, Prometheus and Jaeger

Innosparks, ST Engineering
Singapore

Backend Engineer
Jul. 2018 - Jul. 2019

- Built healthcare platform for post-acute care for Singapore's Ministry of Health
- Led team to implement RESTful API server in .NET Core in C#
- Setup authentication integration with Auth0 as Identity service
- Provisioned manageable infrastructure with on Azure with Azure ActiveDirectory
- Deployed centralised monitoring environment (Application Insights) which gathers system and run-time metrics from Azure resource nodes
- Built fully automated CI/CD pipelines on AzureDevops with Azure and Docker
- Automated load tests in staging environment for performance testing
- Devised a computer vision algorithm to extract a patient's particulars from the National Registration Identity Card
- Built prototype of frontend project in React.js

Skills

Programming	**Proficient**	C#, Go, Typescript **Fluent**	Ruby, Javascript **Comfortable**	C++, Rust, Java
DevOps	Docker, Terraform, GitLab CI, AzureDevops, Azure, AWS, Digital Ocean, Ansible, Github Actions	
Back-end	Ruby on Rails, Express, ASP.NET Core, Gin, Rocket.rs	
Front-end	Vue.js, Vuex, React, Redux, Webpack, Gulp.js, Babel, SASS	
CNCF	Docker, K3S, Helm, ArgoCD, LinkedD, Ambassador, Tyk, Traefik, Lon	
Observability	Prometheus, Grafana, Jaeger, Loki, EFK, Thanos	

Projects

CyanPrint
Templating Engine

Creator
https://cyanprint.dev

- An NPM CLI built to empower interns to kickstart projects without the complexity of configuration and setup by providing production-ready templates for each project type (Typescript)
- Restful API Server to host templates, first-class integration with CLI
  (Digital Ocean, Docker, GitLab CI, Ruby on Rails, PostgreSQL, AWS S3, Auth0)
- Token-based CLI authentication and JWT-based authentication with Auth0 on the API Server
- Landing Site to sign up for an account and browse for templates (Vue.js, Netlify)