

Contact

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Top Skills

cloud cost management
finops
MLOps

Languages

Filipino
English (Full Professional)

Certifications

Introduction to Machine Learning in Production
FinOps Certified: FinOps for AI
AWS Certified SysOps Administrator – Associate
Machine Learning Foundations: A Case Study Approach
Machine Learning Data Lifecycle in Production

Lope Emano

Platform Infrastructure Lead | 15+ Years Scaling Global Systems |
\$4.6m/yr cloud savings
Singapore

Summary

I have been one of the first 30 engineers for companies that eventually scaled to 200+ engineers twice in my career. I specialize in building the "Golden Path" for high-scale engineering organizations. Throughout my career, I have moved to where the business impact is greatest—transitioning from Mobile Engineering to Distributed Systems Architecture, and now to Platform Infrastructure Economics. Currently, at Goodnotes, I lead the Platform Infrastructure team supporting 25 million monthly active users. My focus is the intersection of high-scale reliability and aggressive cost-efficiency.

Experience

GoodNotes

Platform Infrastructure Team Lead
July 2020 - Present (6 years 3 months)

-Platform Strategy-

Architected and scaled cloud infrastructure from the ground up to support millions of daily active users, achieving a highly optimized unit cost of around \$0.16 per user per month.

Designed a shared platform utilizing "Golden Path" patterns. Leveraged ArgoCD, Argo Rollouts, Istio, and Atlantis to standardize deployments, significantly reducing TTM (Time-to-Market) while ensuring system stability and maintainability.

Operationalized full-stack observability and secure access by deploying Datadog and Teleport, providing unified visibility and audited, zero-trust access across all environment tiers.

Engineered a high-scale observability platform using Loki, Grafana, and Mimir to optimize Datadog expenditures. Architected a streaming pipeline processing

3–5B daily logs via Kafka, persisting data into an S3 Data Lake in Apache Iceberg.

-FinOps-

Over \$4.6m in annualised savings, integrated unit economics to backstage, and projected/negotiated more than \$40m+ in supplier contracts.

-Global Engineering Leadership-

Built and mentored a high-performance team of 4 DevOps engineers supporting 300+ developers and 30+ globally distributed Kubernetes clusters —achieving an elite 75:1 developer-to-operator ratio.

Orchestrated a global "follow-the-sun" model, managing distributed SRE and Security teams across Hong Kong, London, SEA, and Canada to ensure 24/7 operational resilience.

-DevSecOps & Governance-

Shifted security left by integrating Trivy, AWS Config, and SIEM workflows, automating vulnerability management and real-time threat detection within the CI/CD pipeline.

Authoring and governing the majority of ISO 27001 and SOC 2 Information Security Controls.

Integrated with HackerOne Bug Bounty program and establishing comprehensive incident response.

Vungle

Senior Site Reliability Engineer II

July 2019 - February 2020 (8 months)

Singapore

Manage and maintain multi-cloud, multi-versioned Kubernetes clusters in GKE, EKS, and kops for monitoring and high availability.

Manage and maintain Kafka, Redshift, Spark clusters for monitoring and high availability.

Manage and maintain various go lang services for monitoring and high availability.

Participate in 24/7 follow-the-sun type on call rotation for the Site Reliability Engineering/DevOps team spread across Singapore, Beijing, and San Francisco.

honestbee

4 years 2 months

Site Reliability Engineer / DevOps

June 2018 - July 2019 (1 year 2 months)

Singapore

Facilitate in implementing Google's Site Reliability Engineering techniques.

Determine and help improve overall Service Level Indicators around apdex, P90 latencies and error rate.

Help improve overall systems visibility on infrastructure and applications using datadog monitoring tools.

Write, recommend, and implement changes related to various down times and corresponding Post-Mortem documents.

Automate various release-related workflows using a combination of scripts, AWS Lambda, and chatbots.

Ensure high availability and fault-tolerance using techniques such as redundancy, automated fail-over, and circuit-breakers.

Propose and implement major AWS related infrastructure changes around RDS major upgrades and DDoS mitigation around AWS - Web Application Firewall.

Propose and implement migration plan from Fivetran to AWS Database Migration Service.

Help in migrating from Elastic Beanstalk to Kubernetes.

Support teams in building deployment pipelines via drone, helm charts, and terraform plans.

Software Architect

October 2017 - June 2018 (9 months)

Use Domain Driven Design and Event Sourcing techniques to gather requirements from business and create Service Oriented Architecture type solutions for logistics and warehouse.

Write comprehensive technical specifications to speed up overall software development.

Work and debate with software engineers in determining the best solution for issues.

Lead Engineer

January 2017 - October 2017 (10 months)

Architect / Lead Engineer for launching honestbee's Attractions/Movies verticals in a very tight timeline

Design and build honestbee's Tickets vertical backend architecture using Domain Driven Design and microservices. Integrate and propose solutions with various 3rd party services around movies, attractions, and events

Help build and deploy microservices on honestbee's devops stack on top of drone-ci, helm-charts, kubernetes and terraform

Focused on client-friendly api contracts using swagger and/or graphql

Senior Software Engineer

June 2015 - January 2017 (1 year 8 months)

Full Stack Ruby on Rails Backend/Android

Work on various backend tickets to complete end-to-end software development flows

Partner App

Application deployed on a tablet used by partners for honestbee's food vertical, printer integration

Shopper App

Barcode scanning, item state flows (found, not found), persistent receipt uploading using jobqueue

Driver App

Driver tracking using geo-location, signature

Consumer Android App

Actor model-inspired Cart logic & Checkout flow

Metric

Lead Android Developer

April 2014 - June 2015 (1 year 3 months)

Cebu

Develop various android applications around fitness, phone blocking, and business card management for an Australian based company

Tools used:

RxJava, Dagger, EventBus, OrmLite, Realm

Save22

Full Stack Engineering

April 2012 - March 2014 (2 years)

Singapore

I was the first employee in this small startup. I built and released Save22's Android Application. The app scans a barcode attached to a product and checks the prices of items nearby. Data is crowd-sourced from other users through the app.

I also built and contributed to the Python Django Web Application and its API Endpoints. I wrote front-end, admin panel pages for geolocation, internal tools for engineering, upgraded the search engine to use solr, dynamic text integration using image processing & ocr.

Tools used (android):

ZBar barcode scanner, Maven, ORMLite, Roboguice and ActionBarSherlock

Tools used (web):

using South to front end javascript such as handlebars.js, turn.js, datatables.js, fileupload.js, select2.js and google maps javascript api
tesseract, solr

resources :

www.save22.com.sg

www.save22.com.ph

www.save22.com.my

<https://play.google.com/store/apps/details?id=com.save22.client.android>

<http://e27.sg/2012/08/10/lobangclub-launches-android-app-drops-the-lobang-name/>

Exist Global

1 year

Software Engineer

June 2011 - March 2012 (10 months)

I was one of the graduates for Exist Software's training camps. I was mainly trained to do Design Driven Development in Java-Spring but was offered a job to become one of the first Android Developers in the company.

I worked on various apps that involved payments for one of the top telecommunications and news company in PH, Globe GCash and Philstar respectively.

resources:

<https://play.google.com/store/apps/details?id=com.philstar.philstarandroid>

<https://play.google.com/store/apps/details?id=com.globe.gcash.android>

ECC Trainee

April 2011 - May 2011 (2 months)

Ortigas Center, Pasig City, Philippines

A few days after his graduation ceremony at Xavier University - Ateneo de Cagayan, he flew to Metro Manila in order to take the entrance exam for the Exist Code Camp 2011.

For 6 weeks, he was trained in various opensource Java EE technologies such as Maven, Spring 2.5 and Hibernate.

He graduated as one of the top 10 students in the class.

resources :

<http://academy.exist.com/2010codecampers>

Education

University of the Philippines

Non Degree, Computer Science · (2013 - 2013)

Xavier University - Ateneo de Cagayan

BS, Computer Science · (2007 - 2011)