Jetnipit Kulrativid

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PROFESSIONAL SUMMARY

Software Engineer with proven expertise in Golang and cloud infrastructure. Experienced in optimizing systems, implementing DevOps practices, and automating infrastructure. Demonstrated ability to collaborate with diverse stakeholders, and deliver scalable solutions that align technical implementation with business requirements.

SKILLS & TECH STACKS

- Programming: Golang, Python, Java, Shell Script, SQL, JavaScript/Typescript, HTML, CSS
- Frontend Framework: React.js
- Databases: PostgreSQL, MongoDB, MariaDB, Redis
- System Design: Clean Architecture, Modular Monolith, Microservices, Event-sourcing
- Cloud: AWS, GCP, Huawei Cloud
- Tools: Git, Docker, Kubernetes, Terraform, Ansible, NeoVim, Cursor, Jira, GitLab CI
- Methodologies: TDD, Domain-Driven Design, SCRUM, OKRs

WORK EXPERIENCE

Blockfint | Software Engineer

January 2025 - Present

Product: Loan Management System (LMS)

- Partner with business stakeholders to gather and translate complex LMS requirements into a **Domain-Driven Design (DDD)** model, ensuring technical implementation aligns perfectly with financial business rules
- Architect the core loan calculation engine using **Event Sourcing** and **Bi-Temporal Data Modeling**, enabling support for backdated financial transactions and automated accounting reconciliation
- Implement an **automated test** (Unit, Integration, E2E), reducing dependency on manual testing loops and accelerating deployment lead time while eliminating human error
- Mentor junior engineers by guiding them through industry best practices, conducting **code reviews**, and evaluate them based on performance and potential

June 2024 - December 2024

Product: Zplify

- Collaborate with tech lead to guide a **team of 5 engineers** in adopting best practices including code review, testing CI/CD and trunk-based development, resulting in **3x sprint velocity** and zero critical production bug within 3 sprints (6 weeks)
- Optimize cloud architecture by transitioning from serverless **Kubernetes** to single-instance architecture, reducing costs by **72%** without compromising performance
- Lead critical incident response for severe database emergency; rapidly diagnose root cause and execute backup restoration, minimizing total damages
- Establish a **DevOps** culture by integrating deployment, CI/CD, and infrastructure management into the development workflow, achieving on-demand deployment capability
- Implement **infrastructure-as-code** using Terraform and configuration-as-code with Ansible, eliminating untracked resources and minimizing human error

Agoda | Software Engineer (Internship)

January 2024 - May 2024

- Serve as a member of the infrastructure development team (Fleet) with engineers based in Bangkok and Singapore
- Redesign HPE server scanner tool that monitors **7,000 instances across 4 global regions** with parallel programming techniques, accelerating speed by **50x** (12 hrs to 15 mins)
- Successfully migrate the infrastructure request service's authentication system from LDAP to Okta (an industry-leading OpenID Connect provider), developing standardized templates adopted by Security Operations team and delivering a critical component of team's **Q1 OKRs**
- Lead a proof-of-concept project of reverse proxy solutions regarding OIDC authentication and authorization for **Kubernetes** and **Docker**-deployed applications, evaluating Contour, Nginx Ingress, and OAuth2 Proxy technologies

Agnos Health | Software Engineer (Part-time)

September 2022 - February 2023

Join the company via invitation from the CEO after collaboration on DMIND projects at Chula UTC

- Design, develop, and deploy **backend features** for the Agnos Health application, improving platform functionality and user experience
- Implement a wheel random module and write **unit tests** using Chi-square test, validating probability models and ensuring mathematical accuracy of randomization algorithms

Chula UTC | Junior Software Engineer (Part-time)

March 2022 - August 2022

- Design, develop, and deploy the backend service for DMIND, a depression-screening web application that helps psychiatrists to identify and reach more than **8,000 high-risk cases**
- Design and implement data storage with MongoDB and Amazon S3 that supports over **100,000** mental health assessments within 6 months, ultimately collecting **300,000+** records that serve as training data for advanced depression assessment AI models
- Optimize performance by caching avatar videos in Redis, significantly reducing download latency and disk utilization
- Containerize the application using **Docker**, significantly reducing deployment complexity and eliminating environment-related errors
- Implement **infrastructure-as-code** practices with Terraform to manage **AWS** resources, preventing untracked resources and minimizing human errors
- Contribute to the successful launch of AIMET, an AI healthcare technology startup spun off from the DMIND project's success

Faculty of Engineering, Chulalongkorn Univ. | Junior Developer (Faculty Project)

May 2021 - July 2021

- Design, develop, and deploy **Golang** backend services with RESTful APIs, integrating **GCP Cloud Storage** and asynchronous speech-to-text service
- Containerize the application with **Docker**, simplifying the deployment process and eliminating environment-related issues

RESEARCH EXPERIENCE

Prof. Prabhas Chongstitvatana's Lab | Research Assistant

March 2023 - December 2023

- Develop an optimized surface-code quantum error correction algorithm, a state-of-the-art approach for fault-tolerant quantum computing, achieving **25% reduction** in required physical qubit resources while maintaining theoretical error correction thresholds
- Communicate complex computer engineering concepts to physics researchers through visual presentations and analogies, translating technical concepts like GPU architecture and algorithmic approaches (divide and conquer, dynamic programming) for non-technical collaborators

Assoc. Prof. Ekapol Chuangsuwanich's Lab | **Research Assistant**

August 2021 - December 2021

- Implement COVID-19 classification using ResNet architecture, training deep learning models with PyTorch framework, achieving **0.85 F1 score** on X-ray dataset

EDUCATION

Chulalongkorn University | **Bachelor of Engineering in Computer Engineering**

August 2020 - May 2024

- **First Class Honors** (GPA: **3.71**/4.00)
- Senior Project: Develop **FPGA-based Network Intrusion Prevention System** utilizing AMD Kria KR260 platform
- Academic Leadership: Serve as **project lead** for senior project and for backend development in software engineering term project

PROFESSIONAL REFERENCES

Raveeporn Vongsraluang

Lead Software Engineer | **Blockfint**

Direct supervisor and Engineering mentor (June 2024-Present)

LinkedIn: https://www.linkedin.com/in/paepae/