Chaiwat Ratanaprateepporn
Head of Technology & Architecture

Redmond, WA - Email me on Indeed:

Exceptional leader in software engineering practices for large scale applications, solution architecture, engineering leadership with solid product and technology visions. Strong in data analytical skills, believe that data-driven is part of engineering and business operation excellence.

I am passionate about building great products and solutions and bring the best experience and values to customers.

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● Full Life Cycle Software Engineering, Agile development, Certified SCRUM Master,
● Solid AWS technology stack in ELB, EBS, EC2, S3, CloudWatch, ECS, RDS, DynamoDB, and etc.
● Experienced in Google Cloud technology in Compute Engine, App Engine, BigQuery, CloudStorage, DataStore, Cloud SQL, and etc.
● Expert in Cloud architecture, services, and cloud migration and legacy re-architecture projects

● LAMP, RESTful, Microservices, Cloud Stack, AWS stack, Google Cloud Platform stack, Hybrid Cloud Design, Hadoop/HBase, NoSQL, SQL, MS SharePoint Architecture, Jenkins, Puppet, Jetty, Spring, JUnit, JMeter, Google BigQuery, Google Analytics
● Proficient in Java, C# .NET, C/C++, Perl, Shell Scripting, JavaScript
● Continuous Integration/Continuous, Deployment, Automated Testing

Willing to relocate: Anywhere
Authorized to work in the US for any employer

WORK EXPERIENCE

Head of Technology & Architecture

Ascend Group - Bangkok, TH -

April 2013 to July 2017

THAILAND
● Led full life cycle for software development and architecture design of company strategic e-commerce platform, www.itruemart.com, www.weloveshopping.com, www.wemall.com, www.truemoney.com.
● Managed multiple, cross-functional engineering teams for e-commerce software development with various technology platform such as, PHP Laravel, JavaScript React and Angular, Java EE and Tomcat Stack.
● Responsible for architecture roadmap including software, deployment, infrastructure, and service monitoring design.

Achievements:
● Designed and implemented company's cloud infrastructure and architecture on Amazon Web Services and Google Cloud Platform. Transformed and migrated all monolithic applications to micro-service and distributed architecture on AWS cloud.

● Migrated on-premise e-commerce platform (LAMP stack) to AWS within 3 months versus 5 month estimation.

● Re-architected e-commerce platform www.wemall.com to be cloud native architecture with micro-service style, leveraging EC2, RDS, AWS S3, API Gateways, ElasticCache, and DynamoDB, achieved cloud native architecture transformation

● Re-designed and implemented e-commerce marketplace platform, (www.weloveshopping.com), from on-premise to fully utilize AWS Cloud stack leveraging EC2, RDS, AWS S3, API Gateways, ElasticCache, CloudWatch, and ElasticSearch. Project implemented and launched within 3 months versus 5 month average.

● Designed and implemented on-premise to cloud hybrid architecture for e-payment infrastructure, decoupled monolithic applications to micro-service for customer facing services on AWS. This project improved High Availability performance from 99% to 99.9%.

● Re-engineered, legacy e-wallet core system, www.truemoney.com and TrueMoney Wallet App, from outdated commercial solution (Utiba) to in-house solution with modern interface capabilities (with REST API and mobile app integration). Delivered in 6 months with no big bang service interruption on live service. This led wallet capacity to 10x improvement.

● Designed high availability (H/A) Payment Gateway API in AWS multi-zone to improved availability from 99.3% to 99.9%.

● Designed application metric framework to improve service monitoring, leveraging AWS CloudWatch, Prometeus, Kibana, Fluentd, Google BigQuery, and ElasticSearch.

● Implemented cloud deployment pipeline from traditional jar/war web service deployment to Java Web Service with machine image (AMI) deployment, improved deployment speed by 2x with non-disruptive (zero down time) capability.

● Initiated and founded Data-Platform team and delivered "Data Genesis" (data integration bus) for data ingestion to corporate Data-lake. This Data Genesis supports company cloud hybrid architecture. Data-Platform implemented on Google Cloud Platform with RabbitMQ, Google Compute Engine, BigQuery, and Cloud stack.

● Successfully implemented Master Data Consolidation project that consolidate data from various departments, implemented on Google Cloud and BigQuery.

● Delivered company-wide performance dashboard for business and operation tracking. The dashboards became the main daily performance tracking tools.

● Implemented 3 layered data-framework standard for business, operations, and productivity metrics.

● Optimized AWS performance and cost scaling with container (Docker) implementation and image deployment, reduced AWS EC2 cost by ~20%.

● Implemented AWS cost optimization framework, saving 20-35% spending on monthly basis.

Development Director & Solution Architect

Thomson Reuters, Reuters Software - Bangkok, TH -

May 2008 to March 2013

THAILAND

● Directed and managed 60 engineers to develop and release Thomson Reuters Collaborations products, including Thomson Reuters Messaging, and Directory.

● Initiated and owned Hadoop Big Data Analytics initiative for Thomson Reuters Collaborations.

● Developed "WordSense" initiative, using Hadoop/HBase, for Stock price sensing detection.

● Implemented Continuous-Integration Development and release management flow to improve time to market. Successfully deploy 2 week release cycle in place of quarterly release, improved time to market by 6 times.

● Re-architected Reuters Messenger Unified Directory to 3rd generation on Microsoft SharePoint and FAST Search engine. Resulted in 300% capacity improvement and 1.5x speed performance. This later became part of Thomson Reuters Eikon.
● Designed and implemented Oracle Coherence Distributed Data Grid as part of core messaging platform.
● Created Instant Messaging Poker Desk concepts that evolved into a commercial Trading Desk product.
● Designed and led development of "Trading Desk", "HelpDesk Agent" new add-on products for Reuters Messenger API.
● Designed and supervised product implementation, deployment, migration, and maintenance plans of the project

General Manager

Microsoft MDP -

January 2006 to January 2008

Chiang Mai, THAILAND
● Owned business development in emerging market in Chiang Mai and 16 Northern provinces of Thailand.
● Drove sales growth to 115% in the 1st year, and 140% growth in 2nd year.
● Planned & executed business strategy to penetrate into new market territory. Successfully expanded business coverage from 6 to 13 provinces and expanded partners from under one hundred to 250+.
● Acted as Solution Architect to help customers select Microsoft solutions for business

General Manager & Development Manager

Digicrafts, Co   -   Bangkok, TH -

April 2004 to January 2006

THAILAND
● Designed and implemented MMO-RPG online game, Arcana the Battle Cards.
● Designed infrastructure for online game operating platform to host GetAmped (#1 casual online fighting) and C21 Battle Robots.
● Implemented revenue supporting systems for online game business operations.
● Managed marketing activities and successfully pushed GetAmped to be #1 casual online game for Thailand market.

MATLAB Core System Engineer

The MathWorks, Inc   -   Natick, MA -

November 2002 to April 2004

USA
● Implemented core infrastructure libraries for MATLAB.
● Wrote Build & Test (BaT) monitoring tools for build and deployment pipeline.

Software Engineer

Avaya Inc   -   Denver, CO -

October 2000 to August 2002

USA
● Wrote C/C++ voice compression library for Intuity Audix system.
● Implemented voice mail engine for Unify Messaging client.

EDUCATION

Master of Science in Computer Science

Ball State University - Muncie, IN

Bachelor of Science in Physics, Electronics

Srinakarinwirot Prasanmit University

SKILLS

● Full Life Cycle Software Engineering, Agile development, Certified SCRUM Master, ● Solid AWS technology stack in ELB, EBS, EC2, S3, CloudWatch, ECS, RDS, DynamoDB, and etc. ● Experienced in Google Cloud technology in Compute Engine, App Engine, BigQuery, CloudStorage, DataStore, Cloud SQL, and etc. ● Expert in Cloud architecture, services, and cloud migration and legacy re-architecture projects ● LAMP, RESTful, Microservices, Cloud Stack, AWS stack, Google Cloud Platform stack, Hybrid Cloud Design, Hadoop/HBase, NoSQL, SQL, MS SharePoint Architecture, Jenkins, Puppet, Jetty, Spring, JUnit, JMeter, Google BigQuery, Google Analytics ● Proficient in Java, C# .NET, C/C++, Perl, Shell Scripting, JavaScript ● Continuous Integration/Continuous, Deployment, Automated Testing (5 years)

LINKS

http://www.linkedin.com/in/chaiwat

CERTIFICATIONS/LICENSES

AWS Certified Solution Architect Associate Certifications

Google Certified Professional - Cloud Architect

Certified SCRUM Master