

Agung Prakasya

Born: Ciamis, 20 May 1975
Live in Jonggol, West Java, Indonesia
Nationality: Indonesian

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education

Degree in Math (2000)
Math Dept. of Institut Teknologi Bandung
Majoring in *Computational Math Modelling*

23 Years of total experience; 23+ years of coding in various languages; 8 years in *bigdata and data-streams*; 11 years of experience in energy and other industries —mostly on *engeering, solution architect & specialist position*;

QUALIFICATION

Highly analytical math graduate with a systematic problem-solving approach. A collaborative team player, adept at building engagement through a personal approach and trust, fostering a cohesive and productive working environment.

Skilled in Linux command line, leveraging standard tools for rapid prototyping and idea validation before creating full-fledged

solutions. A polyglot coder with proficiency in Go, C++, Object Pascal, Python, and Javascript, complemented by some experience in PHP, Java, and Flutter.

Enthusiastic about continuous learning and currently expanding coding skills to include Rust, Elixir, Vlang, and other languages, staying at the forefront of emerging technologies.

CAREER OBJECTIVE

Seeking a challenging role that leverages my strong analytical and coding skills, allowing me to collaborate within a dynamic team and contribute to innovative projects. Passionate about embracing emerging technologies and continuously enhancing technical expertise. Aspiring to make a positive impact by delivering effective solutions and driving excellence through disciplined problem-solving.

PERSONAL RESEARCHES

I am currently developing a Go library for Extended Petrinets, harnessing the full potential of petrinets as a formal method for comprehensive modeling in various computing scenarios; Conducting an ongoing Proof of Concept for a High-Performance Toolset Architecture tailored to handle Massive Text Data (implemented in C++).

PROFESSIONAL EXPERIENCE

Quipper

June 2022–Present

position

reports to

team

(1 year, 1 month)

Solution Architect

Lead Solution Architect

n/a

Quipper is an education technology company that provides e-Learning, coaching, tutoring, and assessment services for K-12 in Japan, Indonesia, the Philippines, and Mexico. The company's primary service is an online learning management system, which is used in different ways in each country where it operates.

Responsibilities

- Conduct solution and architecture design and review for pre-development process.
- Assess and analyze current system for potential improvements.
- Conduct PoCs for technical initiatives.
- Conduct initial development process before handed over to development team.

Accomplishments

- Designed and developed a LTI 1.3 Core specification implementation in Golang from the ground up.
- Designed an integration model for a new service with minimal impact on the existing system.
- Conducted knowledge sharing sessions and documentation on best practices and lessons learned in implementing standards and specifications

Technology Stack

Go, Vanilla Js, MongoDB,
Docker, Kubernetes, AWS,
Github Action

Standards

OpenID, JWT, LTI 1.3

Achievement

Quipper is an education technology company that provides e-Learning, coaching, tutoring, and assessment services for K-12 in Japan

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position **Solution Architect**

reports to Lead Solution Architect

team n/a

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Paques

Feb 2021 - Jun 2022 (1 year, 5 month)

position **Solution Architect,**

Technical PM

reports to CEO

team 6 person + Third Party

Paques is a prominent player in the Indonesian Big Data industry, offering top-notch Data Lake and Analytical solutions. The company excels at processing vast amounts of data, both unstructured and structured, with remarkable speed. Additionally, Paques stands out as an Open-Platform solution, seamlessly interfacing with other Best-In-Class big data platforms for enhanced functionality and versatility.

Technology Stack

Go, Svelte, Angular, Python, Linux Std Tools, AWK, Elasticsearch, Redis, Tile38, PostgreSQL, PostGIS, LXC containers

Standard/Specifications

IPDR, CDR, Geohash, Shapefile

Responsibilities

- Conduct solution and architecture design and review for pre-development process.
- Reengineered product architecture to support future growth and expansion.
- Demonstrate the viability of solutions offered to customers through PoCs.
- Collaborate with stakeholders to ensure that technical aspects of projects are aligned with their needs.
- Successfully managed the technical aspects of 3 projects, resulting in on-time and within budget delivery.
- Reengineered 1 product, Paques Media Intelligence, from the architecture to the implementation.
- Architected and developed a geospatial processing pipeline from end-to-end, from the processing pipeline to the frontend dashboards.
- Developed and deployed a custom Go processing engine that processed 80TB in average, of compressed raw text metadata from telco operations daily.

Accomplishments

Achievements

2021 mid-year best employee; Nominated for 2021 best employee.

Sibernetik

Dec 2017 - Feb 2021 (3 year, 3 months)
position **Solution Architect,**

Technical PM
reports to Director
team 5 person + Third Party

Sibernetik is a pioneering provider of Stream-based Bigdata solutions in Indonesia, leveraging cutting-edge technologies such as Confluent Kafka, Elastic stack, and Qlik. Additionally, the company offers its own proprietary industrial surveillance product, specializing in vessel and aviation tracking, among other applications.

Technology Stack

Go, React, PHP, Confluent Kafka,
MariaDB, PostgreSQL, PostGIS, Redis

Standard/Specifications

NIST, AIS

Responsibilities

- Conduct solution and architecture design and review for pre-development process.
- Demonstrate the viability of solutions offered to customers through PoCs.
- Collaborate with stakeholders to ensure that technical aspects of projects are aligned with their needs.
- Expertly mentoring and grooming a team of young engineers, preparing them for successful project and product development.

Accomplishments

- Managed technical aspects 4 projects.
- Designed and orchestrated the development of a robust, scalable product for implementation by the engineering team.

Achievements

Effectively mentored and empowered a team of young engineers, culminating in the successful delivery of a high-quality product.

Dattabot

Aug 2015 - Dec 2017 (2 year, 4 months)
position **Senior Engineer**
reports to Engineering Manager
team 2 person.

Dattabot pioneers the field of Bigdata analytics with a specialized focus on data integration technology. The company leverages cutting-edge technologies such as the Apache Hadoop ecosystem, Cassandra, and Talend. Its suite of services empowers businesses to extract valuable insights and uncover hidden information from their data, beyond the capabilities of regular analytics.

Technology Stack

Python, Javascript, PHP, Hadoop ecosystem, MariaDB, PostgreSQL, PostGIS, Talend

Responsibilities

- Conduct solution and architecture design and review for pre-development process.
- Conduct technical problem solving for product and project engineering teams.
- Demonstrate the viability of solutions offered to customers through PoCs.
- Collaborate with stakeholders to ensure that technical aspects of projects are aligned with their needs.
- Expertly mentoring and grooming a team of young engineers, preparing them for successful project and product development.

Accomplishments

- Contributed to the successful implementation of 3 cutting-edge Big Data and IoT projects by actively collaborating on the discovery and implementation of innovative technical solutions for the company.
- Played a key role in shaping the company's Big Data and IoT business strategy, leveraging technical expertise and market insights to drive impactful decision-making and business growth.

Dowedo

May 2015 - May 2017

(2 years)

position

CTO, Co-founder

reports to

CEO

team

3 person.

Dowedo was an ambitious early-stage startup in the tourism traveling packages marketplace. Although we successfully validated the idea, an in-depth post-MVP market study led us to make the difficult decision to pursue an exit strategy.

Technology Stack

Go, React, PostgreSQL

Responsibilities

- Conducting comprehensive research to align technology, resources, and costs with our business goals and financial capacity.
- Leading the initial engineering team building for developing the Minimum Viable Product (MVP).
- Undertaking technology research to establish roadmaps, define milestones, and prioritize development efforts.

Accomplishments

- Successfully launched the Minimum Viable Product (MVP).

Tripatra

Oct 2013 - Jul 2015 (1 year, 9 months)
position **Senior Engineer**

Analyst
reports to Project Control Manager
team Third Party

Tripatra is a well-established and reputable integrated engineering, procurement, and construction (EPC) company based in Indonesia. With extensive expertise in project management and operation & maintenance (O&M) services, Tripatra offers comprehensive solutions for various industries. They are committed to delivering high-quality services, focusing on safety, sustainability, and innovation to meet their clients' needs. As a leading EPC player, Tripatra continues to contribute significantly to Indonesia's industrial development and economic growth.

Technology Stack

Javascript, Ms SharePoint, Ms. Office, Ms SQL Server, Ms. Visual Studio

Responsibilities

- Led the solution design process to create user-friendly and efficient tools for clients to monitor on-going projects, ensuring enhanced project visibility and management.
- Solicited feedback from clients regarding the usability and effectiveness of the solutions, ensuring that their needs and preferences are taken into account.
- Facilitated effective communication between clients and the development team, providing valuable insights and actionable feedback for continuous im-

provement of the solutions.

- Collaborated with stakeholders to align technical aspects of projects with their specific requirements and expectations, ensuring seamless integration and successful implementation of the solutions.

Accomplishments

- Oversaw and supported the project progress monitoring tool used in the company's main projects, providing assistance to users and gathering feedback for improvements.

INTERESTS

coding, math, guitar & basses, woodworking, gardening