

# Abdul Arfan

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Location: Indonesia

Availability: 1 month notice

## Professional Summary

Backend and platform engineer with 10+ years of experience building backend systems, APIs, cloud services, internal platforms, and operational systems across education, fintech, security, telecommunications, and research environments.

Experienced in Golang, Python, Java, TypeScript, AWS, GCP, system design, monitoring, cost optimization, API design, engineering documentation, and technical mentorship.

Currently Manager IT Development at PT Kazeto Putra Perkasa / Sekolah Kak Seto, leading IT operations and software development across infrastructure, networking, Google Workspace/Classroom, and school information systems.

## Key Skills

- Programming: Golang, Python, Java, TypeScript / JavaScript / Node.js, PHP, C, Objective-C, .NET
- Backend: REST APIs, backend services, scheduled services, e-statements, underwriting systems, vulnerability scanner backends, student journaling platforms
- Architecture: system design, API design, data consistency, optimistic locking, CQRS, Saga pattern, documentation, cross-team communication
- Cloud and infrastructure: AWS, GCP, Docker, Linux, networking, wireless infrastructure, Google Workspace, Google Classroom
- Databases: MySQL, PostgreSQL, MongoDB
- Operations: Datadog, Opsgenie, RCA, production monitoring, issue resolution
- Tools: GitHub, GitLab, GitLab CI, Jira, Confluence, Karate Framework

## Working Experience

**Manager IT Development - PT Kazeto Putra Perkasa / Sekolah Kak Seto**

**Nov 2025 - Present**

- Lead end-to-end IT operations and software development for school systems.
- Built Jurnal Sahabat Anak, a student activity journaling application for tutors and parents.

- Enabled tutors to record student activities and progress in a structured digital workflow.
- Enabled parents to view student updates and comment on activity logs.
- Manage infrastructure, networking, wireless systems, Google Workspace/Classroom, and internal platforms.
- Manage and mentor IT Support, IT Developers, and Software Engineer roles.

### **Research and Business Development - PT Kazeto Putra Perkasa / Sekolah Kak Seto**

**Apr 2025 - Nov 2025**

- Conducted research to improve school operational processes.
- Developed product and business development initiatives to support growth and expansion.
- Supported digital transformation and new internal system initiatives.

### **Principal Engineer - Broom.id**

**Dec 2024 - Mar 2025**

**Tech:** AWS, Next.js, TypeScript, Datadog, GitHub, Jira, Confluence

- Developed AWS cost reduction initiatives while maintaining system load and operational reliability.
- Reduced RabbitMQ-related infrastructure cost.
- Initiated AWS Compute Optimizer usage for rightsizing and idle resource elimination.
- Combined multiple low-load services into one VM to reduce operational cost.
- Designed and implemented promo engine and recurring / scheduler systems.
- Mentored engineers on data consistency and programming best practices.
- Introduced optimistic locking, CQRS, and Saga implementation discussions.
- Developed a documentation framework for backend, frontend, and QA collaboration.

### **Software Engineer - Aladin Bank**

**Mar 2022 - Dec 2024**

**Tech:** Golang, MySQL, GCP, Datadog, Opsgenie, Karate Framework, GitLab

- Designed and implemented backend systems for digital banking.
- Built money movement APIs, recurring services, and e-statement generators.
- Monitored production systems and resolved operational issues.
- Created RCA documents for incidents.

- Improved API design and backend efficiency.

### **Software Engineer - SRLabs / Autobahn**

**Apr 2020 - Mar 2022**

**Tech:** Python, MySQL, AWS, GitLab

- Developed backend services for vulnerability scanner products.
- Integrated the platform with Jira and Splunk.
- Worked with AWS-based backend infrastructure.

### **Software Engineer - OVO / PT Visionet Internasional**

**Oct 2019 - Apr 2020**

**Tech:** Python, Golang, MongoDB

- Developed backend systems for underwriting workflows.
- Integrated APIs used to assess loan eligibility.
- Supported decision-making workflows through backend services.

### **Fullstack Engineer - Mapan**

**Oct 2017 - Oct 2019**

**Tech:** Python / Django, Golang, GCP

- Developed backend services for sales operations.
- Built business logic for supply chain processes.
- Worked with Python, Golang, and GCP-based systems.

### **Senior Software Engineer - Bumblebee Technologies**

**May 2014 - Oct 2017**

**Tech:** Java, C

- Worked on smartcard and telecommunications projects.
- Developed testing applications for SIM card projects.
- Created custom file system components for SIM cards.
- Developed operating system components for smartcards.
- Worked with telecommunication operator clients.

### **Senior Developer - BilineDev**

**Nov 2013 - May 2014**

**Tech:** PHP, Java, Objective-C

- Developed backend systems for mobile applications.
- Worked on backend and mobile application components, including wedding app projects.

## **Software Engineer - Cipta Srigati Lestari / CSL Group**

**Mar 2013 - Nov 2013**

**Tech:** Java, .NET

- Researched fingerprint library development and Java Card file systems.
- Studied fingerprint ISO standards.
- Implemented converter from minutiae data to compact card format.
- Developed file system components in Java Card.

## **Researcher - Ajou University**

**Mar 2012 - Feb 2013**

**Tech:** Java, C

- Conducted research and development on hard disk mechanisms and caching models.
- Researched SATA hard disk mechanism and cache models.
- Published papers based on research outcomes.

## **Software Developer - Universitas Indonesia**

**Sep 2008 - Mar 2010**

**Tech:** PHP, Java, MySQL, PostgreSQL

- Developed smartcard biometric data capture systems and SMS gateway infrastructure.
- Developed Java application for picture capture and editing.
- Built fingerprint data capture functionality.
- Developed SMS gateway infrastructure and web services.

## **Education**

- Master of Science in Computer Science and Engineering, Sun Moon University, South Korea, 2010 - 2012. GPA: 4.10 / 4.50.
- Bachelor of Computer Science, Universitas Indonesia, 2004 - 2008. GPA: 3.29 / 4.00.

## **Certifications**

- PCEP - Certified Entry-Level Python Programmer, OpenEDG Python Institute, 2024.
- Software Engineer Certificate, HackerRank, 2024.

## **Selected Achievements**

- 2nd Place, 2024 AngelHack HackJakarta, Financial Inclusion Track.
- Finalist, Mandiri "What the Hack" Hackathon Competition, National Top 50 Developer.

- Finalist, Republic of IoT 2018 Makers Make Nation, National Top 30.
- 3rd Place, 2017 BCA Financial Hackathon.
- Gold Medal / 1st Place in Applied Programming, National Science Week, 2007.
- Silver Medal / 2nd Place in ICT Open Source Creation Event, National Science Week, 2008.

## **Publications and Talks**

- PyCon Indonesia 2025: “Back to the Future: A Line-Numbered Python Interpreter with BASIC Flavor.”
- Building Indonesian WordNet, MALINDO Workshop at Cyber City, Malaysia, 2008.
- Access Time-aware Cache Algorithm for SATA Hard Disks, accepted paper at IEICE Journal.