Fahri Nurul Hidayat

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A passionate software developer

Education

2014–2017 **Universitas Indonesia (UI)** - **Master's degree in Computer Science**.
GPA: 3.65
Master's Thesis: "Generating Software Product Line Family on Go Programming Language Based on Abstract Behavior Specification (ABS) Modelling Language"

2007–2011 **Universitas Indonesia (UI)** - **Bachelor's degree in Computer Science**.
GPA: 3.32
Undergraduate Thesis: "Development of Client-Server Matlab Application Based on RabbitMQ Messaging"

Experience

July 2019–Current **Senior Software Engineer**, *Tiket.Com - One of the best online travel booking website based in Indonesia*.

- Business to Business (B2B) team:
  - We developed internal and external dashboard system for partners
  - We are rewriting legacy codebase (monolith) to new one (microservice)
  - We maintain and provide supports of API integrations for partners
  TECH STACK: **Go**
- Research and Development (R&D) team:
  - We developed solutions to help all product teams to migrate to microservices. We developed: **Canary Router** (https://github.com/tiket-oss/canary-router) and **Custom Matcher Traefik Plugin**
  TECH STACK: **Go**
  - We developed **HotStone** (https://hotstone-seo.github.io/) to help SEO team to manage HTML tag using data sourcing. Besides doing frontend, backend, and HotStone client stuff, I especially have worked on URL pattern matching as a part of core feature.
  TECH STACK: **Go**, **React**, **MySQL**, **TimescaleDB**, **Redis**

Nov 2021–Dec 2021 **Freelance**, *Moflip - Crypto Mobile App*.

- I developed core payment system for crypto token: **Bitcoin**, **Ethereum**, **BIDR (Binance Chain)**, **USDT (TOR Chain)**
  TECH STACK: **Go**
- I also designed and setup its infra system to make deployment flexible and able to store customer wallet securely
  TECH STACK: **Nomad**, **Consul**, **Vault**, **Redis**

Nov 2018–March 2019 **Senior Backend and Blockchain Developer**, *Biido.Id - Marketplace and Trading Platform for Crypto Assets*.

- I developed systems to talk with crypto network nodes protocol (Ethereum & ERC20) and payment backend system.
  TECH STACK: **Java**, **Spring Boot**, **Go**, **NodeJS**, **PostgreSQL**, **Redis**, **Docker**, **Kubernetes**
- I developed and published BION (ERC20 token): https://etherscan.io/token/0x9b1b1e109ff130b298cf1d47389c47569f5c2932
  TECH STACK: **Solidity**
- I led a mobile development team.
  TECH STACK: **Dart**, **Flutter**

May 2012–Oct 2018	**Software Developer**, *Center for Computer Science of Universitas Indonesia or Pusat Ilmu Komputer Universitas Indonesia (Pusilkom UI)*.

I worked on various projects for client companies.

- Company X - *Big provider of electronic transaction services*
  - May 2012–August 2013. I *developed* a web based report system for client's customers with features: custom scheduling for data processing and report generation, custom report design & custom data pipeline.
    TECH STACK: **Java**, **Spring MVC**, **Quartz**, **Pentaho**, **MyBatis**, **Oracle DB**
  - March 2014–August 2015. I led team to develop a system to integrate data from several internal systems. Users can made custom integration data workflows.
    TECH STACK: **Java**, **Spring MVC**, **Quartz**, **MyBatis**, **Oracle DB**
  - Oct 2014. I developed web services for mobile banking. On the security layer, I coded HMAC based REST auth (popularized by Amazon at that time).
    TECH STACK: **Java**, **Spring MVC**, **MyBatis**, **Oracle DB**
  - Nov 2015–June 2017. I led and developed corporate payment system for one of Indonesia's largest telecommunication services provider.
    TECH STACK: **Java**, **Spring Boot**, **JAX-WS MyBatis**, **Oracle DB**
  - Oct–Dec 2016. I led and developed a mobile banking application for a regional-owned bank.
    TECH STACK: **React Native**
  - Oct 2017–May 2018. I led and developed a mobile banking application with dynamic user interface.
    TECH STACK: **React Native**
- Product Development
  - Sept–Nov 2015. I developed web services for Enterprise University Information System (EUIS).
    TECH STACK: **Java**, **Spring Boot**, **MyBatis**, **PostgreSQL**
- Hospital Y - *Hospital of the well-known university*
  - Feb–August 2017. I led and developed a hospital management system. This system is designed with highly dynamic authorization in single page application (SPA) architecture. I also built a library for generating odontogram (images of teeth)
    TECH STACK: **Java**, **Spring Boot**, **Vue**, **MyBatis**, **PostgreSQL**

Feb–March 2011	**Internship**, *Indonesia's National Government Internal Auditor or Badan Pengawasan Keuangan dan Pembangunan (BPKP)*.

I *developed* and *made* a prototype of employee performance information system (web based application with desktop-like experience).
TECH STACK: **Java**, **Vaadin**, **IBM DB2**

Open Source Software Contributions

as Author	My contributions as an author:

- Canary Router: HTTP Router for canary release with sidecar pattern
  - `https://github.com/tiket-oss/canary-router`
- Enhanced Traefik to support custom matcher
  - `https://github.com/tiket-libre/traefik/tree/goplugin-matcher` (backup:`https://github.com/fahrinh/traefik/tree/goplugin-matcher`)
  - `https://github.com/tiket-libre/traefik-plugin` (custom matcher example)
- Odontogram: A Java library to generate odontogram
  - `https://github.com/pusilkom/odontogram`
- Azan : an Islamic prayer time application
  - Azan (Cinnamon Applet) : `https://cinnamon-spices.linuxmint.com/applets/view/303`
  - Azan (Gnome Shell Extension) : `https://extensions.gnome.org/extension/1344/azan/`
- This CV
  - `https://github.com/fahrinh/cv`

as Contributor	My contributions as a contributor: ○ Abstract Behavior Specification (ABS) to Go Generator (my master thesis' work) - `https://github.com/fahrinh/abstools`
as Reporter	My contributions as a bug reporter: ○ I found a line-ending bug on Pentaho Reporting and I proposed a fix - `https://jira.pentaho.com/browse/PRD-4917` ○ Fix build error and enable ndbench-dyno-plugins for **Netflix Data Store Benchmark**: `https://github.com/Netflix/ndbench/pull/241`

Community

I am the creator and admin of the following Telegram groups:
○ Elixir ID – `https://t.me/elixir_id`
○ React Native Indonesia – `https://t.me/reactnative_id`

Certificate

June 2010	**Sun Certified Programmer For The Java Platform, Standard Edition 6 (SAI)**.

Tech Skills

Basic	Elixir, Kubernetes
Intermediate	Go, Javascript, Dart, PHP, Python, Ruby, Docker, Ansible
Advanced	Java, Linux

Languages

Bahasa	**Native Speaker**
English	**Intermediate**

Interests

Programming Language	Elixir
Software Architecture	Domain Driven Design (DDD) with Statically Typed Functional Programming Language (F#, OCaml, ReasonML)
Sports	Tennis, Calisthenics

Blog

English	`https://fahri.id/`
Bahasa	`https://fahri.id/id/`

Favourite Tech Sites

Sites that I visit daily to get to know latest (hyped) technology or current software development issues around the world

○ `https://news.ycombinator.com/`
○ `https://lobste.rs/`
○ `https://www.reddit.com/r/programming`