

HASYIMI BAHRUDIN

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Senior backend engineer with over 11 years of working experience, with over 5 years of experience working remotely. Love wearing many hats.

WORK EXPERIENCE

Beam

Kuala Lumpur, Malaysia (Remote)

Senior Software Engineer II (Data Platform)

March 2023 - Present

- Promoted to SE2
- Lead the implementation of dbt slim CI on top of Argo Workflow
- Work closely with operation teams around the world to empower business decisions with data

Senior Software Engineer I (Data Platform)

October 2022 - February 2023

- Changed team to explore data engineering and analytics
- Familiar with BigQuery, ClickHouse, dbt, Argo Workflow
- Rolled out Argo Workflow to replace Zapier for business automation, reducing operational cost by 85%
- Improved business metrics alerts using time-series anomaly detection, reducing false positives by 90%
- Migrated ELT workflows to dbt and Argo Workflow, improving data quality and cost control

Senior Software Engineer I (Vehicles)

May 2021 - September 2022

- Moved to the vehicles team after reorganization. Work on backend projects related to vehicle IOT. Mostly in Go.
- Built an IOT simulator, which allows the team to test our services without requiring physical IOT
- Helped to reduce 70% of unnecessary database writes, which was causing frequent downtime due to database bloat
- Lead the microservice e2e testing project, which helped to improve developer confidence and productivity as we transition towards microservices. Most breaking changes are now caught before they get merged to master.
- Helped to write a query translator for translating Postgresql to BigQuery SQL, which is helping our transition to BigQuery as data lake

Senior Software Engineer I (Product)

July 2020 - May 2021

- Worked as full stack engineer, writing mostly Typescript (Node.js for backend, React Native for frontend)
- Helped roll out 3DS payment in Malaysia, which improved add card success rate for Malaysia from 60% to 80%
- Optimized PostGIS queries to take advantage of geospatial indexing, which reduced latency and database CPU usage
- Implemented OpenAPI to improve API documentation and programmability, which improved developer experience

Pollen
Senior Software Engineer

Kuala Lumpur, Malaysia (Remote)
January 2020 - May 2020

- I was part of the pioneer engineers for a small pre-seed startup, writing mostly Typescript
- Helped the team to adopt Docker for local development, which improved engineer workflow
- Mentored junior engineers through PR reviews

Perlin
Core Engineer

Singapore (Remote)
August 2019 - January 2020

- I was part of the core team that was implementing the Wavelet distributed consensus protocol
- Replaced usage of LevelDB with Badger, which reduced write latency by 10x.
- Optimized memory usage when syncing state.
- Wrote a lot of tests, which increased test coverage from 40% to 70%

Self-employed
Freelance Developer

Kuala Lumpur, Malaysia (Remote)
August 2018 - July 2019

- Took a short break from working with startups
- Worked on a few freelance projects

KATSANA
Full Stack Developer

Kuala Lumpur, Malaysia
2016 - 2018

- I was part of a team of full stack developers. Used mostly PHP (Laravel).
- I led the project of building an in-house IOT server using Go, replacing an open-source server. This improved the overall performance of the product, and also gives us more control on how the server works.
- Helped the team to revamp their dashboard to use WebSocket instead of polling, which improved overall performance

Terato Tech
Games Programmer

Bangi, Malaysia
2012 - 2015

- I was part of a small team of mobile game developers. Used mostly C++ (cocos2dx).
- Built a pseudo-3D game engine (a-la F-Zero) for a mobile badminton game.
- Built a mobile game, which is a fusion of tower defense and mining (Minecraft) game. Not published.
- Built an online card collecting mobile game for the Japanese market (similar to Fantastica) with a team of 1 game producer, 2 programmers, and 3 game artists. Not published.

EDUCATION

Georgia Institute of Technology

MS Computer Science *GPA: 3.7*

Georgia, Atlanta

Fall 2019 - Spring 2023

Limkokwing University

BS Games Technology *GPA: 3.7*

Cyberjaya, Malaysia

2008 - 2011

SKILLS

Programming Languages: Go, Java, Python, C++, C

Areas of interest: Distributed computing, High performance computing, Compilers

OPEN SOURCE CONTRIBUTIONS

LLVM C++

reviews.llvm.org/people/commits/22060/

Casual contributor to LLVM as an effort to improve my compilers knowledge.

Distributed 2D tiled engine Javascript

github.com/hasyimibhar/voffice-crdt

Proof of concept for a distributed 2D tiled engine (virtual office) built on top of CRDT (yjs).

PERSONAL INTERESTS

Mechanical keyboards

I own a split hand ergonomic keyboard, which I hand-wired myself.

Coffee

I brew my own coffee (V60, espresso). Recently started roasting my own beans too.

Guitar

I started playing guitar in 2020. I mostly play bossa nova on a classical guitar.

Digital gardening

I recently started digital gardening. You can read my notes at <https://hasyimibahrudin.com>.