



Mohamad Ikhwan bin Abdullah

Damansara Damai
47830, Petaling Jaya, Selangor

6019 5650 222
ikhwan@mohamadikhwan.com
www.mohamadikhwan.com
my.linkedin.com/in/ikhwanabdullah

Ikhwan Abdullah

Eng. Class Lead, Sr. Software Engineer

Professional Summary

A charismatic and energetic Software Engineer with 7+ years experience developing robust and secure web applications for mid to high volumes usage. Picked up DevOps skills along the way and one step closer to becoming a full-fledged Full Stack Dev. Also a team player with noteworthy time management skill, and very detail-oriented towards project objectives.

Skills

Soft Skills

- ✓ Communication ■ ■ ■ ■ □
- ✓ Leadership ■ ■ ■ ■ □
- ✓ Energetic ■ ■ ■ ■ ■
- ✓ Creative thinking ■ ■ ■ ■ □
- ✓ Teamwork ■ ■ ■ ■ ■

Hard Skills

- ✓ Git ■ ■ ■ ■ □
- ✓ Coding ■ ■ ■ ■ ■
- ✓ Tasks Automation ■ ■ ■ ■ □
- ✓ Web Security ■ ■ ■ ■ □
- ✓ DevOps ■ ■ ■ □ □
- ✓ DRY Code Practitioner ■ ■ ■ ■ □

Programming Language

- ✓ PHP (Native, Laravel, CodeIgniter) ■ ■ ■ ■ ■
- ✓ Javascript (Nodejs, ES6) ■ ■ ■ □ □
- ✓ Python ■ ■ ■ □ □
- ✓ Bash/Shell ■ ■ ■ ■ □
- ✓ SQL ■ ■ ■ ■ ■

Experience

Frog Education sdn bhd / Engineering Class Lead, Senior Software Engineer

NOVEMBER 2018 - PRESENT, SENTUL

- Being one out of 3 Leads for Engineering Class, leading a team of 4 Software Engineers ranging from mid to senior level
- Develop unique Professional Development Plan for each of my direct reportee and follow up their progression on a monthly basis
- Rollout Information Security Management Awareness (ISO/IEC27001) program along with my fellow leads with a success rate of 60% increased in awareness
- Performance evaluation and review of my direct reportee, with a 100% positive feedback from their fellow team members

Key Achievement: Unique Professional Development Plan for each of my direct reportee increased their proficiency in delivering project goals, while having new skill sets for their personal arsenal.

Management Tools:

- DevOps culture
- Radical Candor
- Agile, using Scrum
- RACI+F Framework
- Jira bucket management

Project + Tech stack:

- **Pat & Bob (Patch Management System)** - A patch distribution system that comprises 2 parts; Pat (the server) and Bob (the client). Bob is installed in all Frog Appliance instances, and emits health status hourly, checking if there's any new patch available. Pat, a centralized server that hosts custom patches built by Engineers for updates/bug fixes/security patches, etc. Internal usage only.

Pat (server) - Laravel, Apache, RHEL 6.8 server. Ansible playbook for deployment and server setup. Ansible playbook and shell scripts for patches.

Bob (client) - Nodejs, cli execution, cron scheduler within Frog Appliance.
- **ETL Runner** - A back end application for Extract, Transform and Load various pipelines for big data, leveraging ElasticSearch and GraphQL for Ingress, Fluentd for log forwarder and Google BigQuery and Google Data Studio for storage and visualization. ETL Runner is built using Python, runs using Gitlab pipeline scheduler, with a gitlab runner hosted on OpenShift
- **Various supporting tools (Internal usage only)** - Built using Bash, Laravel, Python, Nodejs. Automation utilising Gitlab CI/CD feature, and Ansible playbook. Docker and docker-compose used mostly for dev work and deployments.

Frog Education sdn bhd / Senior Software Engineer

AUGUST 2016 - OCTOBER 2018, SENTUL

- Lead 3 concurrent sessions on Web Application Security, increasing other developers awareness on the topics discussed
- Mentored 60% of the company's developers in the form of knowledge sharing and how-tos
- Successfully migrated a legacy system to a new solution and deployed it to Production
- Being the Lead developer for the Patch Management System project

Key Achievement: Standardized, automate and tested the deployment process for a project, decreasing human error during deployment by 90%

Project + Tech stack:

- **FrogVLE ([1bestarinet](#))** - A Virtual Learning Platform for Malaysia's education system, focusing on all Government schools across Malaysia. Custom built PHP framework (back end), JMVC (front end), MySQL, RHEL 6.8 server
- **SCORM Player ([scormui](#))** - Migration of a legacy system to a new solution. SCORM player is one of the widgets within FrogVLE that enables users to play SCORM content. ILIAS LMS, Open source Learning Management System using PHP. MySQL, Apache, RHEL 6.8 server. Ansible for infra and server configuration across 8 Web servers, 2 DB servers and 1 NFS server
- **Frog Appliance (FA)** - A distributed system for hosting an offline solution for FrogVLE. Same tech stack as FrogVLE and SCORM as both were deployed inside each FA.
- **Frog Appliance Cloud (FAC)** - The Cloud counterpart of FA, to allow Teachers to access FrogVLE at their home, and sync their content inside FA. Same tech stack as FrogVLE
- **Containerized solution** - Almost all of our products have been containerized, and maintained inside OpenShift platform. Openshift, Docker, and docker-compose (for local dev)

P\S\L Group (PeerHealth Malaysia) / Application Developer

OCTOBER 2012 - JULY 2016, PETALING JAYA

- The Lead developer responsible for end-to-end web applications development in Data Management division
- Actively involved in daily scrum, despite having all other team members working in different timezone
- Managed and oversee over 1 billion scattered data into MDM as a team effort

Key Achievement: Developed a web application for internal usage to combine all downstream system, boosting their work efficiency up to 50%

Projects + Tech stack:

- **GP+ (Internal usage only)** - A Web UI to standardize the output that will be pushed to Upstream system (GP). Native PHP with

OOP approach, MySQL, Apache, and RHEL 6 server.

- Validation Module (Internal usage only) - A Web UI CMS built to validate surveys submitted by doctors based on a predefined parameters. Drupal 7 CMS, with custom module built to suit the requirement, MySQL, Apache, RHEL 6.x server

Techsense Web sdn bhd / Web Developer cum Web Designer

MARCH 2009 - OCTOBER 2012, PETALING JAYA

- Full-stack web developer responsible for all web applications development and deployments. Led a team of 2 developers and a QA
- Directly meeting up with clients for requirement gathering, feature enhancement and regular maintenance
- Optimized and enhanced web application performance through R&D, maximizing the User Experience from 20-30% each year
- Pioneered an Indie Music website for Malaysian, gathering around 400 Indie Bands within 1 year

Key Achievement: Collaboratively designed the company's main product blueprint, making it a comprehensive Campus Management System

Projects: hartanah.net (inactive), jomgig.com (inactive), barracadacms.com (currently known as vialing.com)

Technology stack: Native PHP for the first 2 projects, LAMP stack, CodeIgniter 2, MySQL database, Dedicated Linux Server

Techsense Solutions sdn bhd / Project Engineer

AUGUST 2008 - FEBRUARY 2009, DESA SRI HARTAMAS

- Reviewed and maintained the custom build PHP and Perl library, applying DRY principles to almost 25% of the codebase
- Contributed to the Data Logger development for the Automated Weather Observation System (AWOS) that's being used by Airports and Golf Courses

Key Achievement: Involved in software development for NISMOS Project, converting 108 weather station in Malaysia into an Automatic Weather System (AWS)

Projects: Data Logger for AWOS, NISMOS - 108 weather station to AWS

Technology stack: Custom build (in-house) PHP framework, Custom build (in-house) Perl framework, PostgreSQL, Apache web server, Linux Server, Meteorology-related hardware

Education

Bachelor of Computer Science (Software Eng.) / 2009 - 2015

UNIVERSITY OF TECHNOLOGY MALAYSIA (SPACE)

- Furthered my passion in Software Engineering through 6 advanced courses
- Excelled in Web Development and Software development methodology
- Employee on weekdays working hours, and student by night and weekends

Key Achievement: Graduated with a CGPA of 3.26

HND in Business Information Technology / 2004 - 2008

MARA PROFESSIONAL COLLEGE INDERA MAHKOTA

- Travelled for 601 Kilometres, craving for better education and qualification in Information Technology stream
- Constantly maintained CGPA of 3 and above throughout the whole course

Key Achievement: Graduated with a CGPA of 3.63

Achievements

- ★ Awarded as the Best Student for batch 2004-2008 during Diploma
- ★ Bestowed with the EDEXCEL Outstanding Award for Best Student during Diploma
- ★ Elected as Froggies of the month in March 2018 together with the rest of the crews