Dimas Tri Ciputra

Porto, Portugal
(+351) 932-628-422
dimas.ciputra@gmail.com
github.com/dimasciput

Senior full-stack engineer and technical lead with 10+ years of experience building and maintaining web and mobile apps. Owns products end to end: shaping requirements, designing the architecture, shipping and maintaining them. Has contributed to open source since 2015.

EXPERIENCE

Kartoza (Pty) Ltd, *Senior Software Engineer*

2016 - PRESENT

Product ownership: technical lead and product owner for FBIS / BIMS (bims.kartoza.com), a multi-tenant biodiversity information platform used in published research.

Architecture and delivery: design and review architecture for multiple Django / PostgreSQL / React applications, from data model to deployment, including the multi-tenant design of BIMS.

QGIS plugins: core contributor to the Trends.Earth QGIS plugin, the desktop client of Conservation International's Trends.Earth platform for monitoring land degradation from satellite imagery processed in the cloud. Also maintained the legacy QGIS plugins website, which hosts all QGIS plugins.

Mobile: built and published cross-platform React Native apps (Android and iOS) for Cyanolakes and FBIS, including offline-capable data collection for FBIS.

Security: manage security-related improvements, including dependency updates, vulnerability mitigation, access controls, secrets management, and security-focused code reviews.

Infrastructure and operations: manage production infrastructure using Docker, Kubernetes, Rancher, Hetzner, AWS S3, and GitHub Actions. Oversee deployments, CI/CD pipelines, backups, monitoring, and system maintenance.

Adaptability: work across multiple technology stacks and domains, including GIS, web mapping, large-scale biodiversity datasets, and 3D geospatial visualization using Cesium.

Summit Institute Of Development, *Software Developer*

2015 - 2016

Led the Indonesian team building the Android user experience for OpenSRP, used by frontline health workers.

Access Co. Ltd, *iOS Developer*

2014 - 2015

Built client iOS projects and an ePub reader.

PT. Imani Prima, *Web and iOS Developer*

2013 - 2014

Built an Angular.js e-commerce platform with a matching iOS app.

EDUCATION

Institut Teknologi Bandung,
Bachelor Degree in Informatics Engineering

2012 · FULL SCHOLARSHIP

Dian Nuswantoro University,
Bachelor Degree in Informatics Engineering

2012

SKILLS

Languages
Python, JavaScript, TypeScript

Frontend frameworks
React, React Native, Backbone, Electron, Three.js

Backend frameworks: Django, Flask, PostgreSQL

Web mapping frameworks
OpenLayer, Leaflet, Cesium, Maplibre

DevOps & Containerization
Docker, Ansible, Kubernetes, Hetzner

PUBLICATIONS AND ARTICLES

Helen Dallas, Jeremy Shelton, Tim Sutton, Dimas Tri Ciputra, Mohammed Kajee & Nancy Job (2021) The Freshwater Biodiversity Information System (FBIS) – mobilising data for evaluating long-term change in South African rivers, African Journal of Aquatic Science, DOI: 10.2989/16085914.2021.1982672

LANGUAGES

Bahasa Indonesia, English

PROJECTS

resume.dimasciput.com/portfolio/