

Ismail Sunni

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EDUCATION

- **Universitat Jaume I; University of Muenster** Castellon, Spain; Muenster, Germany
Master of Science in Geospatial Technologies Sept. 2018 – March 2020
- **Institut Teknologi Bandung** Bandung, Indonesia
Bachelor of Science in Informatic Engineering; GPA: 3.65/4 Aug. 2008 – July. 2012

WORK EXPERIENCE

- **Camptocamp Germany GmbH** Munich, Germany
Software Engineer April 2020 - now
 - **Web Mapviewer / Geoadmin:** Migrating print functionality from the old geoadmin to support Mapfish Print 3. Tech: JavaScript, Vue, MapFish Print 3, OpenLayers
 - **Suez3D:** A Proof of Concept for underground pipe exploration tool with constrained navigation. Tech: JavaScript, TypeScript, CesiumJS, 3D Programming
 - **Rennes3D:** WebGIS for visualizing transportation planning, radiowave, and solar power potential in both 2D and 3D. Tech: TypeScript, Vue, TailwindCSS, CesiumJS, VC MapCore, OpenLayers
 - **FPF Commander:** A QGIS Plugin to manage a workspace in cable planning. Tech: Python, PyQt, PyQGIS
 - **Routing API:** An API to calculate the fastest/shortest routes, isochrones, isodistances, and Travelling Salesman Problems with pgRouting and custom data. Tech: SQL, JS, pgRouting, Docker, routing algorithms
 - **Kadas Routing Plugin:** A plugin to add routing functionality to Kadas Albiero 2 (mapping application based on QGIS). Tech: Python, PyQt, PyQGIS, Valhalla
 - **MapFish-Print:** Add meta tile support for MapFish-Print. Tech: Java
 - **Suisse Alpine Club:** Add support for archived document and migrate QGIS plugin and QGIS server to version 3. Tech: Pyramid, PyQt, AWS
 - **QGIS level 3 support:** Give level 3 support for QGIS (server, desktop, and plugin) issues.
- **Kartoza** South Africa
Software Engineer Mar 2014 - Aug 2018
 - **InaSAFE:** InaSAFE is free software that produces realistic natural hazard impact scenarios for better planning, preparedness and response activities. Implemented as QGIS plugin and extended as near-realtime analysis. Tech: Python, PyQGIS, PyQt
 - **GeoNode with QGIS Server:** Develop an early version of supporting GeoNode with QGIS Server. Tech: Django, Python, QGIS Server
 - **GeoNode Integration on QGIS:** Adding GeoNode support on QGIS. Tech: Qt C++
 - **InaSAFE Realtime:** Implement InaSAFE to do near-real-time disaster analysis. Tech: Python, Django, Docker.
 - **GeoContext:** GeoContext is a service that will fetch data for a geographic position. Tech: Python, Django, Django Rest Framework.
 - **SG Diagram Downloader:** A QGIS plugin that will download SG (South African Surveyor General) diagrams. Tech: Python, PyQGIS, PyQt.
 - **Stream Feature Extractor:** A QGIS plugin to extract features from a stream network. Tech: Python, PyQGIS, PyQt.
 - **Projecta:** A Django app for creating visual changelogs for software releases. Deployed on <http://changelog.qgis.org/>, <http://changelog.kartoza.com/en/>. Tech: Python, Django
 - **QGIS and InaSAFE Training:** Give training for QGIS and InaSAFE in Indonesia and Malawi.
 - **FloodHack 2016:** Organizing hackathon for solving flood problem in Jakarta, Indonesia.
 - **Various Web GIS:** Develop custom Web GIS based on the customer's requirement. Tech: Python, Django, Leaflet, Docker
- **Australia Indonesia Facility For Disaster Reduction** Jakarta, Indonesia
Software Engineer Aug 2012 - July 2013
 - **InaSAFE:** InaSAFE is free software that produces realistic natural hazard impact scenarios for better planning, preparedness and response activities. Implemented as QGIS plugin. Tech: Python, PyQGIS, PyQt

PROJECTS

- **Encoded Polyline QGIS Plugin.:** A simple QGIS plugin to load an encoded polyline
- **Google Summer of Code 2019 participant with OSGeo.:** QGIS 3D Improvement: On Screen Navigation, Bookmarks, Rendering Point Feature as Billboard, and Measuring Tool. Tech: Qt C++, 3D Programming
- **Docker QGIS 3 Model:** Running QGIS 3 Model inside Docker. Tech: Docker, Python, QGIS
- **F3: Factor Finder:** Sentiment Analysis and Sentimental Topic Extraction from Opinion about Public Figure Opinion in Bahasa Indonesia. Tech: Python, Sentiment Analysis, NLTK
- **altRnative:** R package to run and benchmark R script across R implementation and OS. Tech: R, Docker.
- **Pedestrian Routing:** Implement landmark extraction and routing algorithm based on A* with landmarks for the pedestrian. Tech: Python.

MISCCELLANEOUS

- **Erasmus Mundus Scholarship:** Scholarship for pursuing master of geospatial technology in Spain, Portugal, and Germany, 2018-2020
- **OSGeo Travel Grant:** Travel grant for presenting my Google Summer of Code project with OSGeo at FOSS4G Belgium 2019 Conference
- **Indonesia Python Community:** Python community meet-up organizer in Yogyakarta (initiator) and Indonesia (ex-treasurer): <http://python.or.id/>
- **Indonesia QGIS User Group:** Founder of Indonesia QGIS User Group: <https://qgis-id.github.io>

CERTIFICATES

- **Certified Kubernetes Application Developer:** The Cloud Native Foundation's Certified Kubernetes Application Developer (CKAD). Certification ID Number: LF-lldo6m7koi9