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

- **QGIS Hub Plugin**: A QGIS plugins to fetch resources from the QGIS Hub
- **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-ldo6m7koi9