DAVID HUSER

davidhus@pm.me • davidhuser.ch • Lucerne, Switzerland

Health information systems engineer and DHIS2 expert with 4+ years experience in software design, data engineering, open source, international NGOs and ICT for development in low- and middle-income countries. Proven ability to scope and deliver projects; solve meaningful problems with software; mediate between users, technology experts and business/ management; and work productively while remote.

EXPERIENCE

Senior Solutions Engineer, BAO Systems, Washington D.C.   **Oct 2020 – present**

Solutions Engineer, BAO Systems, Washington D.C.   **May 2016 – Jul 2019**
Independent end-to-end system specialist of DHIS2

- Technology lead for a high-volume event-based implementation of DHIS2, strengthened real-time analytics and surveillance stability
- Designed and developed DHIS2 apps, ODK-based data collection platform interoperability, legacy system migrations, and quality monitoring web services
- Delivered a high-level design of a mortality surveillance platform
- Troubleshot issues in the nexus of DHIS2 and systems/hosting as part of customer support

Project Assistant, Swiss Tropical and Public Health Institute, Basel   **Jul 2015 – Oct 2017**
Software/DHIS2 developer in the Swiss Centre for International Health (assoc. University of Basel)

- Consulted on national civil registration and vital statistics IT systems integration with DHIS2 in South Asia
- Piloted DHIS2 in a project with the Ministry of Health in Egypt
- Developed basic cloud provision workflow for DHIS2 instances
- Conducted DHIS2 workshops within global health programs

SKILLS

Data engineering: Python programming; cloud computing; APIs & REST; SQL databases (PostgreSQL, SQLite); Linux system administration; Javascript/React

Product development: project scoping and management; requirements engineering; software design and architecture documentation; wireframing

Soft skills: mediating between tech experts and management; giving workshops and trainings; critical thinking; visual communication and technical writing

Languages: English (working proficiency); German (native); Italian & French (basic)

EDUCATION

MSc Information Sciences, Vrije Universiteit, Amsterdam, The Netherlands   **2019 – 2020**
Courses: service oriented design; software architecture; knowledge organization; ICT4D; social web and data mining; interdisciplinary research methods; master thesis on humanitarian health information systems; GPA 8.1

BSc Computer Science, University of Applied Sciences Northwestern Switzerland   **2011 – 2015**
Specialization in Design and Management; GPA 4.8/6

PROJECTS

dhis2-pocket-knife: Command-line helper tools for system administration of DHIS2. Widely used and open source.

dhis2.py: Production-level and light-weight Python library for DHIS2 and data engineering. Open source.

smartva-dhis2: Open source glue software for Verbal Autopsy integration. Won *Commonwealth Digital Health Award* 2018.

Kasadaka Weather Service: Working prototype to provide voice-based weather forecasts via feature phone call for farmers in the Sahel based on Raspberry Pi, Django and weather APIs.