Olli Kortelahti

Olli is a freelance software engineer passionate about functional programming and high-quality systems. He can deliver software end to end, from mapping user needs to deploying the solution to the cloud. He values thought-out software development processes and aims to automate everything that can be automated.

Github
LinkedIn

Experience

Institute of Clever Stuff (freelance)   Aug 2020 ⇨ May 2022

`Python` `Terraform` `BigQuery` `Apache Airflow` `Google Cloud Platform`

Worked on a project combining data science and software for one of the largest furniture retailers in the world. Worked in three different roles: first as a software engineer with a DevOps focus, second as a software engineer with a data science focus and third as a data engineer lead of five engineers. Led the technical implementation of a critical part of the system being built.

Rare Agency Oy (freelance)   Jul 2020 ⇨ Aug 2020

`Python` `React` `Azure`

Did data analysis on customer service bot usage patterns and created a web application for presenting the results of the analysis to the users. Helped a junior developer to succeed in their work on the project.

Veracell Oy (freelance)   Jun 2020 ⇨ Jul 2020

`Python` `Google Cloud Platform`

Did explorative data analysis on patients' sleep cycles from sensory data for a healthcare IoT start-up. Played a crucial part in implementing a data ingestion pipeline for sensory data.

National Audit Office of Finland   May 2019 ⇨ May 2020

`Python` `PowerBI`

Developed a web application aiming to provide tools to automate and increase the effectiveness of the work of financial auditors. Did data analysis work combining records of working hours and financial data in order to spot inaccuracies in working hour reporting. Organised a weekly programming course for financial and performance auditors to help them automate repetitive tasks in their daily work.

The Finnish Government Shared Services Centre for Finance and HR   May 2018 ⇨ Nov 2018

`Python` `VBA`

Automated several reoccurring and error-prone processes of a financial reporting team saving the team multiple man-days per month.

Personal projects

Event Organizing Web App

`Haskell` `servant` `TypeScript` `React` `PostgreSQL` `Terraform` `Google Cloud Platform`

Full-stack web application for organizing events and sending out invitation. Programmed with Haskell Servant in the backend and TypeScript React in the frontend.

Task Execution Manager

`Concurrent Haskell` `servant`

Task execution manager which executes directed acyclic graphs of tasks concurrently and exposes a REST API for monitoring the execution of the tasks.

BigQuery SQL Parser

`Haskell` `megaparsec`

A parser for BigQuery SQL syntax which can be used to validate and manipulate queries.

Education

- Master of Science (Computer Science), on-going
- Master of Administrative Sciences

Language skills

- Finnish – native
- English – full working proficiency