

# Ilja Umov

Data Engineer

✉ ilja.umov@gmail.com 📍 Helsinki, Finland 🌐 [linkedin.com/in/iljau](https://www.linkedin.com/in/iljau) 🐙 [github.com/iljau](https://github.com/iljau) 📷 @iljauu

## SUMMARY

---

Software development in data & analytics projects, including handling of the associated aspects like builds, deployments and cloud infrastructure.

## SKILLS

---

- Python, Java, SQL, Snowflake
- Airflow, dbt, Looker
- AWS, Terraform, Docker, Kubernetes
- ctypes, Cython, pybind11, JNA, CMake

## EXPERIENCE

---

**Data Engineer**, Foxway OÜ; *Tallinn, Estonia* ..... Aug 2023 - Sep 2023

Set up AWS account for data engineering projects from scratch

Tech stack: Python, AWS, Kubernetes, Docker, Linux, ClickHouse, Dagster, OpenMetadata

**Data Engineer**, Concise Systems OÜ; *Tallinn, Estonia* ..... May 2021 - May 2023

Data warehouse development for a client organization

- Analyzed data and created data models using dbt
- Implemented ETL workflows to extract data from different systems
- Created continuous integration setup for data projects
- Researched, advocated for, and implemented various data platform improvements
- Assisted other teams with using data platform components

Tech stack: Python, SQL, Snowflake; Airflow, dbt, Looker; AWS, Terraform, Docker, Kubernetes

**Data Engineer**, STACC OÜ; *Tartu, Estonia* ..... Oct 2020 - Apr 2021

Engineering work as part of machine learning projects

- Handled DevOps and integration parts of the projects
- Created Docker images for builds, local development and production deployments
- Set up AWS infrastructure using Terraform
- Configured CI/CD pipelines for builds, automated testing and deployments

Tech stack: AWS, Terraform, Python, conda, Airflow, Docker, make, Bash, Bitbucket Pipelines

**Data Engineer**, IPF Digital AS; *Tallinn, Estonia* ..... May 2018 - Sep 2020

Python and SQL development in data warehouse team

- Designed and implemented service for internal credit scoring and performed related data analysis
- Extended functionality of internal data processing and synchronization framework
- Implemented multiple ETL pipelines, starting from gathering requirements to production monitoring
- Started multiple experimental projects: data copying tool to transfer customer data between different databases, credit scoring calculation service in Kotlin, Python bindings for of MySQL Workbench parser

Tech stack: Python, Flask, OpenAPI, MySQL, Java, Kotlin, Vert.x, Docker

## EDUCATION

---

**MSc Computer Science**, Tallinn University of Technology; 2016 - 2017\*

- First year of studies completed; dropped out

**BSc Computer Science**, Tallinn University of Technology; . 2010 - 2016

- Was awarded IT Academy scholarship during four semesters
- Thesis topic: "Development of automated tests for consumer loan system"

**High School Diploma**, Kadrioru Saksa Gümnaasium; ..... 2010

- State exams: Math: 96%, Geography: 93%
- German: 94%, English: 91%, Estonian: 80%

## LANGUAGES

---

<b>English</b>	● ● ● ● ● ●
<b>Estonian</b>	● ● ● ● ● ●
<b>Russian</b>	● ● ● ● ● ●
<b>German</b>	● ● ● ● ● ●

## EXPERIENCE CONT.

---

**Software Developer**, Versobank AS; Tallinn, Estonia ..... Jun 2017 - May 2018

Banking system development, implementing reports using Python and Oracle PL/SQL

- Implemented services for digitally signing bank orders and PDF generation
- Created PyCharm plugin for custom template language

Tech stack: Python, Oracle PL/SQL, Java, Vert.x, reportlab

**Software Developer**, Tieto Estonia AS; Tallinn, Estonia ..... Jun 2016 - Apr 2017

Banking system development using Python and Oracle PL/SQL

- Extended functionality of existing codebase, including work on unit, integration, and UI tests
- Wrote shell scripts to automate common development tasks
- Evaluated technical solutions to migrate codebase from SVN to Git

Tech stack: Python, Oracle PL/SQL, Fabric, Selenium, py.test

**QA Engineer**, Knowit Estonia OÜ; Tallinn, Estonia ..... Nov 2014 - Jun 2016

Test automation using Java, Selenium and SoapUI

- Created framework for end to end testing of web application: combining UI tests, executing SQL queries, and calling SOAP services in same codebase
- Performed functional and performance testing of web services

Tech stack: Java, Selenium, JMeter, SQL, SOAP, SoapUI

**QA Engineer**, FOB Solutions OÜ; Tallinn, Estonia ..... Jun 2014 - Oct 2014

Testing mobile mapping application on iOS and Android, reporting and tracking found issues.

- Also created prototype project to evaluate possibility of automating some test cases for Android version.

**Software Developer**, Teleplan Estonia OÜ; Tallinn, Estonia ..... Jul 2012 - Feb 2014

Developed software to automate testing of mobile phones using Python and C++

- Created graphical user interface for nose test runner using PySide
- Implemented object recognition functionality using OpenCV and SimpleCV
- Wrote python wrappers for C/C++ libraries: tesseract-ocr, NI-DAQmx and Basler SDK
- Got libimobiledevice working on Windows using Cygwin and Cython
- Initially wrote Python test scripts to automate testing of set-top boxes.

Tech stack: Python, ctypes, C++, PySide, OpenCV, NumPy, SciPy