



ERNESTA PETRAITYTĖ

FULL-STACK SOFTWARE ENGINEER

PROFILE

Full-stack software engineer with experience delivering production-grade web applications and data platforms in high-stakes environments - from CERN-scale research infrastructure to fast-moving commercial products. Comfortable owning the full lifecycle: scoping requirements with stakeholders, implementing frontend and backend features, maintaining data pipelines, and deploying services to the cloud. Strong focus on code quality, reliability, and usability.

WORK EXPERIENCE

✉ ernesta.petraityte@yahoo.com

🇱🇹 Lithuanian

🐙 <https://github.com/ErnestaP>

🌐 https://www.linkedin.com/in/_petraityte-ernesta/

SKILLS

Programming Languages

Python, JavaScript, TypeScript, R, Perl, Java, C#

Web Frameworks & Libraries

React, Next.js, Django, Redux, FastAPI, React-Native

UI/Styling

AntDesign, StyledComponents, Material UI, Tailwind

Testing

Pytest, Jest, Cypress

DevOps & Tools

Google Cloud, Apache Airflow, Docker, Git, Unix Commands

Databases & Data Tools

PostgreSQL, Apache Superset, OpenSearch, GraphQL, SQLAlchemy, Alembic

SOFT SKILLS

Communication
Teamwork/Collaboration
Adaptability
Positive Attitude
Willingness to Learn
Attention to Details
Work Ethic

Full-Stack Developer | Philico SA

02/2025 - Present
Lausanne, Switzerland

- **Full Stack & DevOps Responsibilities:** Work across the entire stack as the only developer on the team of data scientists. Assisted with code implementations, deployments, and troubleshooting whenever needed.
- **Legacy Code Maintenance and Modernization:** Contributed to maintaining and improving legacy code while migrating to a modern technology stack and libraries. Also managed the migration from one cloud provider to another, focusing on Google Cloud.
- **Communication with Stakeholders and Product Owners:** Engaged with stakeholders and product owners to extract requirements, define user stories, and ensure that solutions aligned with project needs.

React

Redux

JavaScript

Jest

Git

Python

Pytest

Docker

Google Cloud

Heroku

Full-Stack Engineer | CERN, RCS-SIS-TS

09/2021 - 08/2024
Meyrin, Switzerland

- **Apache Airflow DAGs:** Designed, developed, and maintained workflows for efficient data processing, utilizing third-party APIs and harvesting data from FTP and SFTP sources. Worked with Docker files, contributed to GitHub workflows for CI/CD, and wrote unit and integration tests using pytest.
- **Django Backend Development:** Enhanced backend functionality by developing features, creating RestAPIs, and contributing to optimizing searches by using OpenSearch.
- **Frontend Involvement:** Expanded full-stack capabilities by handling selected frontend tasks with Next.js and AntDesign.
- **Monitoring Project & Stakeholder Collaboration:** Played a key role in a monitoring project, collaborating closely with stakeholders and using Apache Superset for data visualization. Demonstrating good communication, active listening, and presenting ideas confidently.
- **Projects Involved:** SCOAP3, Monitoring

Python

Pytest

Apache Airflow

Docker

PostgreSQL

Django

OpenSearch

JavaScript

Next.js

Ant Design

LANGUAGES

Lithuanian (Native)
English (Fluent)
French (Intermediate)
Russian (Basics)

CERTIFICATES

Testing Next.js Apps with Jest,
Testing Library and Cypress

- Udemey
- 09/2024

Advanced React

- Scrimba
- 08/2024

Python Data Structures & Algorithms

- Udemey
- 08/2024

Python Django Dev To Deployment

- Udemey
- 12/2023

IELTS

- British Council
- 09/2022 - 09/2024
- C1

.NET programming

- Teltonika academy
- 12/2018

VOLUNTEERING

Lithuanian School Students'
Union (LMS)

- 09/2013 - 12/2015

WORK EXPERIENCE

Full-Stack Engineer | CERN, EP-CMG-CO

02/2020 - 08/2021
Meyrin, Switzerland

- **DQM GUI Development:** Redesigned and developed the CMS Data Quality Monitoring (DQM) GUI Frontend using Next.js and TypeScript. This work improved user interaction, ensuring an intuitive experience for physicists monitoring particle collision data.
- **On-Call Support (DOC Role):** Served as the lead DOC, providing on-call support to assist users with issues across the CMS DQM system. This role involved troubleshooting, resolving problems quickly, and ensuring minimal downtime for the system.
- **Support for Multiple Applications:** Provided support for various web applications maintained by the DQM group.
- **Projects Involved:** DQM GUI

Next.js

Ant Design

TypeScript

StyledComponents

Python

Front-End Developer | Dekbera

02/2019 - 05/2020
Vilnius, Lithuania

- **Emergency Services Software:** Contributed to the development of a web application for ambulance dispatch. Utilized React and Material UI for Front-End development, Jest and Cypress for testing to ensure a seamless user experience.
- **Independent Project Management:** Entrusted with managing my own project early on, which significantly improved my Front-End development skills and ability to work independently.
- **Supportive Environment:** Benefited from a highly supportive supervisor, which accelerated my learning and skill acquisition.

React

Redux

JavaScript

Jest

Cypress

EDUCATION

Oulu University of Applied Sciences

01/2023 - 06/2024

Master of Business Administration in
Modern Software and Computing Solutions

Oulu, Finland
(Remote)

Vilnius University

09/2016 - 07/2020

Bachelor in Bioinformatics

Vilnius, Lithuania