# Oleksandr Zadvornyi *Software Engineer*

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## 🪪 Profile

Software Engineering Master's graduate with a versatile skill set spanning Data Science, Web Development and Test Automation. Proven ability to build complex analytical tools with Python and responsive web interfaces using modern JavaScript ecosystems. Passionate about writing clean, maintainable code and solving challenging engineering problems.

## 🧠 Skills

**Languages:**
Python, JavaScript, TypeScript, HTML5, CSS3.

**Tools & QA**
Git, Docker, WebdriverIO, Selenium, Figma

**Data Science & AI**
PyTorch, Pandas, Scikit-learn, LangChain, Topological Data Analysis, MNE-Python.

**Web Development**
React, Redux, Node.js, Express, MongoDB, Firebase, Tailwind CSS.

## 📂 Projects

**Epileptic Seizure Detection Framework (Master's Thesis)** ⧉
Python, Scikit-learn, Streamlit
- Developed an automated framework for epileptic seizure detection on CHB-MIT Scalp EEG data.
- Implemented Topological Data Analysis (Persistent Homology) combined with Random Forest classification to achieve high accuracy.
- Created an interactive Streamlit dashboard to visualize EEG signals and classification results.

**Test Automation Framework** ⧉
JavaScript, WebdriverIO, Mocha
- Designed robust testing framework for Syncfusion Appointment Planner using the Page Object Model pattern for scalable architecture.
- Implemented cross-browser testing capabilities and automated reporting for web applications.

**Dental Clinic Multi-Language Platform** ⧉
HTML5, CSS3, JavaScript, Webpack
- Engineered a high-performance landing page with support for 5 languages using i18next library.
- Configured a Webpack pipeline to optimize assets, ensuring fast load times and clean architecture.
- Implemented responsive design and smooth animations tailored for the best user experience.

## 🎓 Education

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| 09/2024 – 12/2025<br>Ternopil, Ukraine | **Master of Science in Software Engineering**<br>Ternopil Ivan Puluj National Technical University ⧉ |
| 09/2020 – 07/2024<br>Ternopil, Ukraine | **Bachelor of Science in Software Engineering**<br>Ternopil Ivan Puluj National Technical University ⧉ |

## 🌐 Languages

**Ukrainian** — Native/Bilingual

**English** — Upper-Intermediate (B2)