

# Andrej Dolenc

Software Engineer

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## CAREER HIGHLIGHTS

- Software engineer with 7+ years of industry experience, 15+ years as a hobbyist
- Winner of Celtra Inc. AI competition for predicting viewer's orientation in a 360° video (*Common Lisp*)
- Public speaker in front of over 500 attendees of the Dewesoft Measurement Conference 2024
- Organizer of yearly "Advent of Code" groups at Dewesoft to promote programming for fun (*Python, Haskell*)

## WORK EXPERIENCE

**NVH Team Lead, Senior Software Engineer — Dewesoft d.o.o.** Trbovlje, Slovenia, Feb 2023 – Present

- Led a team of 5 software engineers to deliver high-quality, pragmatic solutions for the measurement industry
- Raised concern about the issues of one of Dewesoft's leading future products, resulting in company-wide restructuring to fix the problems in time for customer deliveries
- Rewrote storage engine and profiled bottlenecks in Dewesoft's first stand-alone data logger (*C++, Linux, perf*)
- Co-delivered a guest lecture "FFT in the industry" for 25 master's CS students of University of Maribor

**NVH Team Lead, Software Engineer II — Dewesoft d.o.o.** Trbovlje, Slovenia, Nov 2020 – Jan 2023

- Handwrote a parser to remove dependency on Flex & Bison binaries in an open-source openDAQ SDK (*C++*)
- Streamlined the development process for 50+ engineers by taking initiative, converting approx. 200 Mercurial repositories to Git and self-hosted GitLab, and educating developers (*Git, Python, Bash, Docker, Linux*)
- Re-imagined Dewesoft X's Experimental Modal Analysis solution, which helped Dewesoft break into companies such as ESO, Stratolaunch, WEG, Zoox, and many others (*C++, Delphi, Python*)

**Software Engineer I — Dewesoft d.o.o.** Trbovlje, Slovenia, Nov 2017 – Oct 2020

- Created a future-proof C++ platform used for the majority of new NVH modules in Dewesoft X, to help transition signal processing modules from a 1.5+ million line Delphi codebase (*C++, Delphi*)
- Modernized Dewesoft X's Combustion Engine Analyzer module, leading into extended use by major automotive and naval customers such as MAN, Volvo, Wärtsilä, ... (*Delphi*)
- Devised an approximation-algorithm-based solution to generate personalized timetables for 300+ attendees and 50 lecturers of the 2018 Measurement Conference, replacing previously used manual approach (*Python*)

**Internship as Data Analytics Engineer — Celtra Inc.** Ljubljana, Slovenia, Sep 2017 – Oct 2017

- Created a Scala library for Databricks API by scraping and parsing the reference website (*Scala, Python*)

**Internship as Software Engineer — Dewesoft d.o.o.** Trbovlje, Slovenia, Feb 2017 – Jun 2017

## EDUCATION

**MS Computer Science and Mathematics — University of Ljubljana** (9.6/10; missing thesis) Present (on hold)

**BS Computer Science and Information Technologies — University of Maribor** (9.6/10) 2014

## PERSONAL PROJECTS

**cl-neovim** Created a "host" plugin for Neovim that lets developers write custom plugins for the popular editor using Common Lisp (*Common Lisp, Vimscript, msgpack, event loop*)

## AWARDS AND ACHIEVEMENTS

Reached round 2 of Google Code Jam (top 3500/world, 2018); 1<sup>st</sup> place in Celtra Inc. AI challenge "Operation Periscope" (2017); frequently reached Slovenian ICPC finals (2013, 2014, and 2015); 3<sup>rd</sup> place at Dream's machine learning Olfaction Prediction Challenge with University of Ljubljana Biolab team (2015); recipient of Zois scholarship for gifted students (2007 – 2014).