Andrej Dolenc Software Engineer

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CAREER HIGHLIGHTS

– Team lead with 7+ years of industry experience as a software engineer, 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, in order to gradually 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 plugin for Neovim utilizing msgpack and event loop that lets developers write plugins for the popular editor using Common Lisp *(Common Lisp, Vimscript)*

AWARDS AND ACHIEVEMENTS

Reached round 2 of Google Code Jam (2018); 1st place in Celtra Inc. AI challenge "Operation Periscope" (2017); frequently reached Slovenian ICPC finals (2013, 2014, and 2015); 3rd 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).