

Adam McCartney

Junior Developer

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Profile

Passionate software developer, changing careers after 10 years in the area of music and third-level music education. Proficient in c++14 and Python development with a strong interest in Linux as a development platform.

Languages and Technologies

- Languages: c++14/17, Python, Bash
- Technologies: Git, Linux, Unit and Integration testing, Ansible
- Currently learning: Django, Docker, Kubernetes

Projects & Open-source contributions

- *midi Sequencer*, a modular tool for music composition written in c++14, listens to system port for incoming Midi data. Leverages STL datastructures and algorithms to process notes in real time, create and send a new sequence over the network.
 - [View the code on GitHub](#)
- I'm a member of the *abjad* organization, a python API for formalized score control with a user base in the thousands.
- Member of [mur.at](#). Developed websites other members.
 - [NOW! Oper der Gegenwart | die andere saite](#)

Experience

2020 - 2021 MdW, Vienna - Researcher / Software Developer

- Designed a python application to generate notated scores.
- Wrote a set of unit tests using pytest & developed an automatic build pipeline.
- Designed an experiment to explore the effects of binary erosion on the source.
 - [View the code on GitHub](#)

2018 - 2021 Vienna Music Institute - Systems Admin

- Implemented a course management system that enabled 30 teachers to grade 200 students enrolled in over 200 courses.
- Managed upkeep and support of the system.
- Developed a pipeline to automate the process of student enrollment.

2017 - 2021 Vienna Music Institute - Lecturer

- Developed and taught courses in Music Theory, Composition, Computer Music and Acoustics to undergraduate students.

Education

- Software Developer c/c++, WiFi Vienna (2021)
- Master of Arts in Composition, Kunstuniversität Graz (2013)
- Bachelor of Music, University College Cork (2010)

Hobbies

- long distance running, hiking, cycling
- electronics, mathematics, physics and acoustics