David M. Evans II

Software Engineer – Chicago, IL

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Education

Concordia University Chicago
Bachelor of Science, Computer Science *December 2018*

Experience

Amdocs
Software Engineer *August 2020 - Present*
- Develop and maintain back-end services and applications
- Design and develop machine learning models for data predictions
- Write scripts for facilitating data processing

Ronin Capital
Software Developer *April 2019 - April 2020*
- Maintained and developed software for Ronin's trading platform
- Worked mainly with C++, SQL, Perl and Python in a Linux environment
- Built applications that facilitated the processing and manipulation of financial information

Academic Center for Excellence
Peer Tutor *2017 - 2018*
- Tutored peers on computer science concepts which include: data structures, algorithms, and object-oriented programming

Projects

PyPitch *2018*
- PyPitch is a "smart" musical instrument tuner which recognizes the individual notes of a chord in real-time with up to 95% accuracy and displays the musical information to the user
- PyPitch was written in Python and uses the Tensorflow and Numpy libraries
- A neural network was trained on 400+ pieces of recorded musical data in order to perform the chord predictions

dme2.dev *2020*
- My personal website built using the Hakyll static site generator
- Hosted on a VPS with nginx

Pitch Tracker *2020*
- Tracks the pitch of a signal using the MPM pitch detection algorithm.
- Uses several C++ libraries for audio buffering and digital signal processing.

Skills

Languages: C++, C, Python, SQL, Bash, Java, JavaScript, Perl
Tools/OS: GNU/Linux, macOS, Windows, Bash/Shell/Terminal, Xcode, Vim, Emacs, Visual Studio, git/Github
General: OOP, DB, Networking, Functional Programming