

Dmitri Volkov

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EDUCATION

Indiana University Bloomington/Jacobs School of Music 2021-now
B.S./M.S. in Computer Science and B.A. in Music Composition
Minor in Computer Music, Computer Science concentrations in Programming Languages and Fundamentals. Member of Hutton Honors College. Cumulative GPA: 3.99

EXPERIENCE

Independent Software Developer 2019-now
Develop highly-regarded apps and plugins, released on App and Google Play stores and personal digital storefront, achieved over 300 sales with minimal advertising.

Violin in Jacobs School of Music University Orchestra 2021-now
Perform in symphonic orchestra with conductors including Marzio Conti, on pieces such as the world premiere of *Star on the Rise* (ballet) and symphonies by Beethoven/Brahms/Mozart/etc.

President and founding officer of Quantum Technologies for Everyone Club 2023-now
President and founding officer. Organize 2023 Quantum Day as co-chair. Schedule and lead meetings, network and invite professionals, coordinate efforts among club leaders.

Hideaway Collective 2021-2024
Recording string parts for various tracks by Hideaway collective, including Dewrise (on Sleepyhead EP, 2021 SVS 2nd place) and In The Dark (on Clandestine EP, SVS IV 2nd place best theme interpretation), Life And Death/Underwater (KANNA EP, SVS V 3rd place).

Orchestrator and Transcriber for Charles Ives Music Festival 2022-2023
Re-orchestrate musical works for the Charles Ives Music Festival, including *Concerto for My Family* by Grammy-winning bassist Ranaan Meyer. Also transcribe works from one instrument to another, and part preparation.

Undergraduate Instructor at Indiana University Bloomington 2023
Courses: CSCI-C 311/H11/A595 Programming Languages, CSCI-A290/A590 Straight Line to Deep Learning. Provide prompt and in-depth feedback for students, help students to solidify understanding of course material, collaborate with other instructors to develop course materials.

Mostly Modern Music Festival 2022
Composition participant, including private lessons with Robert Paterson, David Ludwig, Stephen Cabell, a masterclass with Dave Eggar, and a premiere by Neave Trio.

Coding Club/Anyone Can Code 2015-2021
Co-establishing/co-leading coding clubs at Scotts Ridge Middle/Ridgefield High Schools.

Internship at Enchanted Garden Studios 2017-2021
Internship at music recording studio with Noah Manheimer. Skills include setting up audio equipment, audio engineering/recording, photography including editing, and videography.

PROJECTS

Pivotuner, audio plugin for macOS and Windows 2021-2024
MIDI effect plugin which dynamically tunes virtual instruments in pure intonation, using MPE. Developed with mentorship from Ben Bloomberg, and in collaboration with many musicians, including Grammy-winning artist Jacob Collier and Grammy-nominated artist Nick Revel. Pivotuner was selected for presentation at MOXsonic 2024.

Sonifying Quantum Superpositions [...], academic paper 2023
Academic paper about sonifying quantum superpositions using rhythmic density. Presented at ISQCMC 2023, published in proceedings. Co-authored with Walker Smith and Alex Alani.

Malt Transformer, transformer neural network implementation 2023
Implementation of the GPT architecture in Racket/Malt.

zin1 Drone Metronome, app for iOS and Android 2020-2022
Music practice app combining metronome and drone. Features include chord building, combination modes, visual cues, and more. Released 2020.

untitled9, music production 2024
Released February 2024. Heavy use of quarter-tonal harmony. Length: ~3 mins.

untitled2, music production 2022
Released November 2022. Includes over 100 tracks, microtonal modulation (using Pivotuner).

Dream and Variations, composition for solo organ 2021
Premiere February 2021 by Elijah Buerk. Length: ~11 mins. RIOCC 2021 Organ Composition Competition Young Artist Division 1st Prize.

Accord, composition for solo cello 2021
Premiered October 2021 by Philip Williamson. Length: ~7 mins. 2021 NYC Contemporary Music Symposium at Columbia University Finalist.

SKILLS

Programming Languages/Frameworks: C++, JUCE, Python, Godot, Racket, Max/MSP, Java.
Technical Specializations: audio plugins, cross-platform/mobile apps, quantum computing.
Music: composition, violin, trombone, bass, improvisation, music production, audio engineering.
Misc: Bitwig, Blender, DaVinci Resolve, LaTeX, Spanish, UNIX shell, Vim, Visual Studio, Xcode.

AWARDS / HONORS / SCHOLARSHIPS

Accepted into Indiana songSLAM 2024 2024
Founders Scholar (Indiana University) 2022-2024
Accepted into MOXsonic 2024 2023
Luddy School of Informatics, Computing, and Engineering Dean's List 2023
Society of Composers, Inc. Super Regional Summer Mixtape Final Selection 2023
Music Faculty Award Scholarship (Indiana University Bloomington) 2021-2023
Premiere Young Artist Award Scholarship (Indiana University Bloomington) 2021-2023
Finalist in ASCAP Morton Gould Young Composer Competition 2020
National Runner-Up in NFMC Class III Composition Competition 2019