Dmitri Volkov

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EDUCATION

Indiana University, Bloomington IN, USA   2025 - present
M.S. in Computer Science
Research in relational/logic programming, programming language theory, and quantum computing.

Indiana University, Bloomington IN, USA   2021 - 2025
B.S. in Computer Science and B.M. in Music Composition
Highest distinction and honors. Minors in Computer Music and Math, Computer Science concentrations in Programming Languages and Fundamentals. GPA: 3.99. Credits taken: 219.

Institute for Research and Coordination in Acoustics/Music (IRCAM), Paris, France   2024
Contemporary Music Creation and Critique course in Max/MSP and other IRCAM software.

EXPERIENCE

Independent Software Developer and Researcher   2019 - present
Develop highly-regarded apps and plugins, released on App and Google Play stores and personal digital storefront, achieved over 300 sales with minimal advertising. Novel research into various subjects, including computer music and quantum computing. Present at festivals and international conferences, and contribute to journal articles and textbook chapters.

President and founding officer of Quantum Technologies for Everyone Club   2022 - present
President and founding officer. Organize 2023 Quantum Day as co-chair. Schedule and lead meetings, network and invite professionals, coordinate efforts among club leaders.

Undergraduate Instructor at Indiana University Bloomington   2023 - present
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.

Violinist and Trombonist   2009 - present
15+ years of violin, 10+ years of trombone. Performances in student and professional ensembles.

SKILLS

Programming Languages: C/C++, SQL, Python, Java, JavaScript/TypeScript, R, Rocq, OCaml, Racket.
Specializations: functional programming, programming languages, audio/music, quantum, math.
Music: composition, violin, trombone, computer music, music production, audio engineering.
Miscellaneous: UNIX shell, technical communication, office apps, APIs, Linux, macOS, Windows, Bitwig Studio, Logic Pro, DaVinci Resolve, LaTeX, HTML/CSS, Russian, Spanish.