DHARIT TANTIVIRAMANOND (REED)

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WORK EXPERIENCE

LOCAL DIALECT LLC QUEENS, NY

Electronic Music Producer & DJ, 2017 – Present
- Self-taught audio production, synthesis, and recording using Ableton as well as hardware equipment.
- Released over 40 tracks on various labels such as Zerothree, Realm (Gorgon City), Purified (Nora En Pure), Ein2 (Einmusik), with an upcoming release on Stil Vor Talent.
- Performed numerous DJ sets at venues such as The Brooklyn Mirage, Shrine LA, and Hard Rock Hotel San Diego.
- Manages Local Dialect's social media presence, budget, and logistics.
- Teaches 1-on-1 audio production lessons.
- Built and tested web visualizers for use during livestreams using p5.js and WebMidi.

PURE STORAGE MOUNTAIN VIEW, CA

Software Engineer (IO Path Team), Aug 2015 – May 2019
- Worked on increasing the write rate to flash storage modules inside Pure Storage's FlashArray product by optimizing the write path of Purity, Pure Storage's C++ software infrastructure.
- Participated in data corruption investigations that occurred on internal testbeds to catch critical bugs before they manifested on customer arrays.
- Tested a new Quality-of-Service feature that ensured large-scale write operations across an unprecedented size of 5000 volumes wrote to each volume evenly and avoided write-starvations and timeouts.
- Tracked and analyzed performance regressions across every type of FlashArray product.
- Built Python infrastructure to automate the process of pinpointing the cause of a regression by bisecting git commit history.

TINTRI MOUNTAIN VIEW, CA

R&D Intern (Filesystem Team), 2014
Optimized the Tintri filesystem directory table recovery by using persistent unordered maps to allow instantaneous and on-demand file operations, thereby reducing the filesystem boot times.

PRINCETON TERRACE CLUB PRINCETON, NJ

Treasurer, 2013 – 2014
Budgeted Terrace Club's $230,000 social fund throughout the school year and organized events including formal dinners, members' nights and live music shows.

EDUCATION

PRINCETON UNIVERSITY

PRINCETON, NJ

Bachelors of Arts in Computer Science with Honors
GPA: 3.49

THESIS PROJECT

Worked with Professor Jeffrey Snyder on the Birl Project:
- Developed a realtime physics-based simulation of a wind instrument with continuous tone-hole coverage inputs, as opposed to existing models which only allow tone-holes to be either fully open or fully closed.
- First of its kind to allow techniques like half-holing, overblowing, and multiphonics with this type of physical modeling synthesis.
- Devised a tuning system to tune the model to any arbitrary scale using variable tone-hole sizes to compensate for integer-length delay lines. Utilized a novel approach using integer-length delays instead of fractional-length to avoid tuning imperfections.

TALKS & PUBLICATIONS

Authored a paper and gave a presentation based on contributions to the Birl Project at the 2017 International Symposium on Musical Acoustics (ISMA) conference, held at McGill University, Montreal, Canada. Links to paper and conference proceedings here.

SKILLS

Programming Languages
Python, Javascript, C, C++, Java

Tools & Frameworks
React, Tailwind, Vim, VSCode, gdb, git, p5.js

Audio Production
Ableton, Bitwig, Max/MSP, Chuck

Language Capabilities
Fluent in English, Thai, Lanna (Northern Thai dialect).
Proficient in Mandarin.