

DHARIT TANTIVIRAMANOND (REED)

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WORK EXPERIENCE

LOCAL DIALECT 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.
- Maintains a studio equipped with 4 analog synthesizers, preamps, pedals, and more.

PURE STORAGE MOUNTAIN VIEW, CA

Software Engineer (Full Time), August 2015 – Dec 2016

Software Engineer (Contractor), Jan 2017 – May 2019

- As a member of the IO Path team, 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 component.
- 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.
- As a contractor, tracked and analyzed performance regressions across every type of FlashArray product. Built infrastructure to automate the process of pinpointing the cause of a regression.

TINTRI MOUNTAIN VIEW, CA

R&D Intern (Filesystem Team), Summer 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.

SKILLS

Programming Languages

C, C++, Java, Python, OCaml, Javascript

OS X, Linux Environment / Tools

Vim, Spacemacs, VSCode, gdb, git, React

Audio Production

Ableton, Bitwig, Max/MSP, Chuck

Language Capabilities

Fluent in English, Thai, Lanna (Northern Thai dialect).

Proficient in Mandarin.

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. Conference proceedings available at <https://isma2017.cirmmt.mcgill.ca/proceedings/home>.

ACTIVITIES

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.

ECLECTIC – ELECTRONIC MUSIC

COLLECTIVE

Artist Member, 2011 – 2016

Organized and drove online releases, as well as contributed original material. Eclectic has two compilations and many other releases available online to date at https://soundcloud.com/eclectic_signals.