# **Jatin Chowdhury**

## **Audio Signal Processing Engineer**

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Education

#### Stanford University, Center for Computer Research in Music and Acoustics

Palo Alto, CA

M.A. IN MUSIC, SCIENCE, AND TECHNOLOGY

Sept. 2018 - June 2020

- Denning Family Fellowship for the 2018-2019 academic year.
- · Relevant Coursework: Advanced Digital Signal Processing, Digital Instrument Design, Spatial Audio.

#### **University of Southern California**

Los Angeles, CA

B.S. IN ELECTRICAL ENGINEERING, PHYSICS (MINOR), MUSIC RECORDING (MINOR)

Aug. 2014 - May 2018

- · USC Presidential Scholarship, USC Renaissance Scholar
- Relevant Coursework: Signal Processing, Circuit Design, Digital Logic, Electromagnetics, Software Design.

Experience \_

Persp3ctive VR

Los Angeles, CA

SOFTWARE/DSP ENGINEER

June 2019 - PRESENT

· Developed and implemented audio effects for use in a VR audio production environment.

#### **Audioworks Technologies**

Toronto, ON

SOFTWARE ENGINEER

July 2018 - Dec. 2018

- Member of of the SoundsUnite developement team: building a digital audioworkstation (DAW) using JUCE/C++.
- Developed and implemented DSP, UX, and file management features for the application.
- Presented work to engineering team, managers, and investors.

**McGill Space Institute** 

Montreal, QC

RESEARCH TRAINEE

May 2017 - Aug. 2017

- Member of the CHIME/FRB Working Group: building a software pipeline to detect Fast Radio Bursts (FRBs).
- · CHIME is a telescope in British Columbia; has detected most FRBs in the Northern Hemisphere to date.
- Presented work for CHIME/FRB Working Group and CHIME/FRB Pipeline Gamma Release.

#### Publications & Presentations \_

#### Real-Time Physical Modelling for Analog Tape Machines

Sept. 2019

PROC. OF THE 22ND INTERNATIONAL CONFERENCE ON DIGITAL AUDIO EFFECTS

Birmingham, UK

- Oral presentation at the DAFx-2019 conference.
- Available on the DAFx Archives: http://ant-s4.unibw-hamburg.de/dafx/paper-archive/.

#### The CHIME Fast Radio Burst Project: System Overview

Aug. 2018

THE ASTROPHYSICAL JOURNAL

Vol. 836, No. 1

- Co-authored with the CHIME/FRB Collaboration
- Available on the arXiv: https://arxiv.org/abs/1803.11235.

Skills\_

**Programming Languages** C/C++, Python, MATLAB, Faust, LaTex, Javascript

Tools/Frameworks Linux, Visual Studio, Git, Travis, JUCE, Audio Plugins (VST, AU, AAX, WAM)

Projects \_

#### **Chowdhury DSP**

FOUNDER, ENGINEER

June 2018 - PRESENT

- Developed audio plugins including distortion, dynamic range control, filterbanks, and delay matrix effects.
- Designed and developed NewMixer, a unique and revolutionary audio mixing tool.

### **NoLava Recording Studios**

Los Angeles, CA

Co-Founder, Audio Engineer, Technical Advisor

Aug. 2017 - July 2018

• Recorded, mixed, and mastered for artists of various styles including acoustic, electronic, rock, country, and punk.

· Installed, repaired, and maintained speakers, microphones, keyboards, amplifiers, and other musical equipment.