

SOFTWARE ENGINEER · AUDIOVISUAL ARTIST · LIVE CODER

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Experience .

Vimeo New York, New York

SENIOR SOFTWARE ENGINEER (UPLOAD TEAM)

July 2019 - Current

- Built the instant playback capabilities for Vimeo's screen recording product
- · Designed and implemented analytics and dashboards for multiple projects, including upload-pipeline performance, and for analyzing user behavior and action paths in the Vimeo interface.
- · Presented internally about specific infrastructure decisions and contributed to internal tooling for data analysis and codedocumentation.

Georgia Institute of Technology

Atlanta, Georgia

GRADUATE RESEARCH ASSISTANT (SOFTWARE ENGINEER)

Aug 2017 - May 2019

- Developed new features for the EarSketch project, an in-browser IDE/Digital-Audio-Workstation for coding education.
- · Visited schools to see EarSketch in action and communicated with teachers directly about performance issues.
- Prototyped a Jupyter-notebook style environment for interactive audio programming.
- Implemented single-sign-on system integrating with TunePad.

Yext New York, New York

SOFTWARE ENGINEER Oct 2015 - Dec 2016 · Contributed to the release of several major Yext products, including Reviews, the Yext Developer Platform, and Xone.

- Built data visualizations in JavaScript using the D3 and Highcharts libraries.
- · Built and optimized ETL pipelines for aggregating logs from bluetooth beacons and calculating business metrics

Applied Predictive Technologies

Washington DC

SOFTWARE ENGINEER

Aug 2014 - Sept 2015

- Built business intelligence software capitalizing on rich data sets.
- · Worked in a continuous integration setting to quickly and flexibly deliver client facing features while managing technical debt.
- · Worked closely with product managers in contributing to design, scoping features, and determining development schedules.

Selected Publications

(ALL PDFs available on Google Scholar)

- Sarwate, A., Tsuchiya, T., and Freeman, J. "Collaborative coding with music: Two case studies with EarSketch" Proceedings of the Web Audio Conference. Berlin, Germany, September 19-21, 2018
- Sarwate, A., Rose, R., Freeman, F., and Armitage, J. "Performance Systems for Live Coders and Non-Coders" Proceedings of the International Conference on New Interfaces for Musical Expression. Blacksburg, Virginia, USA, June 3-6, 2018
- Sarwate, A. "Calcification and Hybrid Live Coding" Audio Mostly. Norrköping, Sweden, October 4-6, 2016.
- Sarwate, A., and R. Fiebrink. "Variator: A creativity support tool for music composition." Proceedings of New Interfaces for Musical Expression (NIME), Daejeon, South Korea, May 27–30, 2013.

Selected Projects ___

(DOCUMENTED ON MY WEBSITE)

- · Noisey Nights Developed a real-time graphics performance system for Vice's Halloween event, including audio-reactive visuals and Kinnect interaction. Implemented with TouchDesigner and custom GLSL code
- Paradise Lost Developed interactive graphics for an experimental musical theatre performance using TouchDesigner and GLSL, including graphics that interacted with live dancers.
- · Visual Synthesizers Developed tools for performing live visuals with musicians, built upon p5.js, Three.js, and custom GLSL.

Education ₋

Georgia Institute of Technology

Atlanta, GA

MASTERS OF MUSIC TECHNOLOGY

Aug 2017 - May 2019

Princeton University COMPUTER SCIENCE - BACHELOR OF SCIENCE IN ENGINEERING (CUM LAUDE)

Princeton, NJ Sept 2010 - June 2014

Skills_

Programming Languages JavaScript, Python, GLSL, Java, C#, PHP, HTML/CSS

Systems and Software SQL, Git, Linux

Audio SuperCollider, ChucK, Ableton Live, MAX/MSP **Graphics** WebGL, Three.js, Jitter, TouchDesigner

JULY 10, 2021 AVNEESH SARWARTE · RÉSUMÉ