

Tom Sobolik

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EDUCATION

University of Virginia: B.A., Computer Science & Music

Class of Spring 2019

Activities: WXTJ Student Radio, Cavalier Daily, V Magazine, U.Va Jazz Ensemble, Student Hip Hop Organization

Coursework: Program & Data Representation, Software Development Methods, Computer Architecture, Algorithms, Mobile Application Development, Internet Scale Applications, Human-Computer Interaction, Game Design, Designing Audio Effects, Topics in Ethnomusicology, Critical Race Theory, Jim Crow America, Music and Discourse Since 1900

languages

> Java > Python > C++ > Swift
> JavaScript > HTML/CSS > x86 > SQL

SKILLSET

tools

> Django > Git > Docker > Firebase
> Kafka > Selenium > Spark > AWS
> Bootstrap > Node.js > Android Studio

PROJECTS

smpl.pk

Fall 2018

- > Marketplace site for sharing sound files for music production, built with Django and deployed via Docker pipeline
- > Built REST-ful microservices for communicating with provided MySQL server backend
- > Automated builds using Travis CI, wrote/deployed integration tests using Selenium, load testing via Apache JMeter
- > Implemented search using a Kafka queue which indexes listings into Elasticsearch
- > Generated recommendations via recurring map-reduce job on Apache Spark

Potluck Planner

Fall 2018

- > iOS app to help friends plan potluck dinners, written in Swift and built using Xcode and Firebase
- > Firebase DB for asynchronous access to user account info, recipes, event listings
- > Implemented account registration / access using Firebase token authentication

makhanda@U.Va

Spring 2019

- > Facilitated multimedia classroom experience linking 25 students to interdisciplinary arts space in South Africa
 - > Designed and built website with Django and Bootstrap to present the results of the class
 - > Taught digital music production workshop to ~10 students, collaborating with a hip hop artist in Makhanda via Skype and Google Drive
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EXPERIENCE

Director of Events, WXTJ Charlottesville

Spring 2018 -

- > Co-director of growing student radio station, online & FM
- > Collaborated with student musicians and cultural organizations to organize 3-4 DIY benefit concerts per semester
- > Helped oversee recruitment and training of 120 student radio programmers
- > Booked, organized, ran annual Chapel Show featuring internationally renowned touring artist Shabazz Palaces, raising over \$3000 for Charlottesville Sexual Assault Resource Agency and Public Housing Association of Residents

Freelance DJ, Producer, Recording Artist

- > Founded and developed a for-hire DJ business, working with local business owners and student organizations
- > Established a network of creative contacts, contributing original work to student films, podcasts, and visual art
- > Conducted workshops on sampling/beatmaking, Max-MSP programming to assist Music department faculty

Summer Intern, Atlas Music Publishing

Summer 2017

- > Processed metadata and publishing sync documentation for boutique music publishing firm
- > Conducted research on sampling copyright law, identified 200 uncleared samples from the Atlas catalog