tomgurion

Music / Tech / Interaction

contact

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programming

python: django, and parts of the scipy stack

elixir: phoenix

music & audio: Max/MSP, PureData (and libpd), WebAudio API

web: JavaScript, jQuery, D3, HTML, CSS, Bootstrap

tools: git, docker

education

2016-today **Doctor** of Media and Arts Technology

Queen Mary University of London

2011–2015 Master of Music Technology

Bar-Ilan University

An Audio-Only Augmented Reality System for Social Interaction

This thesis explores the potential for using modern technologies to create spatial interactive music consumption experiences for non-professional musicians, where the user' social interaction is the main influence over actually heard music.

Developing Android applications and Bluetooth based indoor positioning system as part of the research.

Courses GPA: 94. Thesis grade: 100.

2010–2011 **Diploma studies** in the Music Technology program

GPA: 97.

2006–2011 **Bachelor** of Mathematics and Music

Haifa University

Bar-Ilan University

Undergraduate of the department of mathematics excellence program. GPA:

experience

2014–2016 **Python management server developer**

XtremIO

Working on the management server of an enterprise storage array. Developing automated maintenance procedures such as system upgrades, hardware replacements, restores, migrations, etc.. Implementing high-level and interactive communication protocols between clients and server.

2014 **Python and Django tutor**

Freelance and with Udi Oron

Trainings for new programmers, in hi-tech companies and for independent developers. Responsible for developing training materials as well as assisting and teaching in class.

2014 Full-stack web developer

Shachar web

Developing ERP web application with python and django on the server side. html, javascript and jquery on the client side.

2012-2014 Music cognition research assistant

Freelance

Generating stimuli for, and executing music cognition experiments. Taking part in the experiment results analysis.

Working with Prof. Zohar Eitan from Tel-Aviv University and Dr. Roni Granot from the Hebrew University.

- Generated audio stimuli using Java according to requested mathematical formulas (e.g. Shepard tones).
- Developed GUI application to run music cognition experiments with Python.
- Analysis of recorded music using Vamp plug-ins and python packages for audio features extraction.

2009-2014 Math tutor

Freelance and at HighQ

Teaching mathematics from junior high to high school including preparation for matriculation exams. Teaching BSc students linear algebra A and B, calculus A and B, discrete mathematics, probability, statistics and more. Teaching classes at HighQ toward 4 units matriculation exams.

2010–2014 Marketing director

Galilee Bedouin Camplodge

Building and maintaining Wordpress (obsolete) and statically generated business sites. Promoting the business through Israeli and international tourism portals and managing customer relations.

2012–2013 Lecture series organizer

Bar-Ilan University

Organizing lectures of invited speakers on the subjects of music technology, electronic music and post-modern and interactive art in the Music and Technology Program of Bar-Ilan University Music department.

2006-2008 Studio and computer lab assistant

Haifa University

Taking part at building the computer lab of the music department and being responsible for functionality of the lab and the studio. Working as a recording and mixing engineer in different projects by the music and the art departments.

publications

2015 An Audio-Only Augmented Reality System for Social Interaction

Gurion, T., Thesis. Bar-Ilan University Music Department. Ramat Gan, Israel.

2015.

2013 Audio-Only Augmented Reality System for Social Interaction

Gurion, T. and Jacoby, N., HCI International 2013 – Posters' Extended Abstracts. Communications in Computer and Information Science Vol. 373.

Springer Berlin Heidelberg, pp. 322-326.

conferences

2016 The Krihelinator PyWebIL 55, Tel-Aviv

Oral presentation the "Krihelinator" project.

2013 Audio-Only Augmented Reality System for Social Interaction

IEEE International Symposium on Technology and Society, Toronto

Oral presentation of my masters thesis.

2013 Audio-Only Augmented Reality System for Social Interaction

International, Las Vegas

Poster of my masters thesis.

2013 MusiGali -- EEG controlled music project Br

Brain Tech Israel, Tel-Aviv

HCI

Live demo.

awards

2009 GU8 Consortium Mathematics Contest

The Global U8 Consortium

Achieved a silver prize.