Euy Shick Hong

Doctor of Musical Art in Computer Music
ICMT(Institute for Computer Music and Technology), CTO
TestWorks, R&D Team Lead
Software Engineer.

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+1-647-657-0321

Richmond Hill,
Toronto, Canada

SKILLS

Javascript
Node.js
React.js
HTML5
Python
MySQL
PHP
Max/MSP/Jitter
Processing
Arduino

EDUCATION

Dongguk University, Doctor in Multimedia (Computer Music)

Multimedia Department, 2019

Yonsei University, Master in Computer Engineering

Graduate School of Engineering, Computer Engineering, 2022,

Dongguk University, Master in Computer Music

Multimedia Department, 2011

Wonkwang University

Bachelor of mechanism engineering, 2008

DOCTORAL DISSERTATION

"A study of Interactive Web Application through Web-based Audio Library Development"
Web Audio API / Canvas / Node.js / Javascript / HTML5

SKILLS

- **Node.js, Python, PHP, MySQL**

- **React.js, SASS, HTML5, JavaScript**

- **DrSax.js (Web Audio Library) OWNER**

- **Tensorflow, Keras**

- **Max/MSP, Quartz Composer, Processing, Arduino**

COMPANY

ICMT(Institute for Computer Music and Technology**) /** CEO, CTO 2019 ~ present, Seoul, Korea

TestWorks / Software engineer, R&D Team Lead and Manager 2021 ~ present, Seoul, Korea

Market Designers / Software engineer, front-end manager 2018 ~ 2021, Seoul, Korea

Computer Shopping / Software engineer, web application. 2017 ~ 2018, Seoul, Korea

Maybe one / Software engineer, web application. 2016 ~ 2017, Seoul, Korea

MARTE Lab. / Software engineer, lecturers, Researcher. 2014 ~ 2016, Seoul, Korea

EXPERIENCE

TestWorks R&D Team Leader 2021 - PRESENT

Divisions : TestWorks / R&D Team / Team Leader
Main Skills : PHP/ Node.js / React.js / MySQL
Main Works :
[Develop Web Application]
- PHP / Node.js / MySQL / React.js, Restful API
- ECMAScript
- HTML5 API
- GIT, JIRA

Market Designers Front-end Team Leader 2018 - 2021

Divisions : Market Designers / R&D Team / Front-end Team Leader
Main Skills : React.js / SASS / JQuery / Javascript / MySQL
Main Works :
[Develop and maintain the mobile app]
- React.js,Restful API
- UI component
- ECMAScript
- HTML5 API, SASS (CSS)
- GIT, JIRA

[Develop Web-based Application]
- React.js, SASS, BOOTSTRAP, Restful API
- Web Audio API
- UI component
- ECMAScript
- HTML5 API, SASS (CSS)
- GIT, JIRA

Happy Shopping Head of Corporate Affiliated Research Center 2017 - 2018

Divisions : Happy Shopping/ Head of Corporate Affiliated Research Center
Main Skills : React.js / SASS / JQuery / Javascript / MySQL/Node.js
Main Works :

[Web-based, Web, Mobile Application]
- React.js, SASS,Restful API
- UI component
- ECMAScript
- HTML5 API, SASS (CSS)
- SNS Login
- Payment Module system
- GIT, AXURE

MaybeOne development team manager 2016 - 2017

Divisions : MaybeOne / development team manager
Main Skills : JQuery / Javascript/ HTML5 / CANVAS / Restful API
Main Works :
[Development and maintenance of web-based image editor]
- JQuery / Javascript/ HTML5 / CANVAS / Restful API
- Partial implementation of content editor functions such as calendar, book, and album
- HTML5 CANVAS API
- ECMAScript

MARTE Lab. Researcher, Lecture 2013 - 2016

Divisions : MARTE Lab / Researcher / Lecture
Main Skills : Max/MSP / Arduino / HTML5 / processing.js / Quartz Composer
Main Works :

[Lecture and interactive content development and publication of thesis]

- **Hybrid saxophone interface development / Dr.saxophone**
  Physical computing + Max/MSP
- **Hybrid saxophone interface development / Dr.saxophone 2**
   Physical computing + Max/MSP
- **Hybrid saxophone interface development / Telesaxophone**
  Physical computing (Arduino) +Max/MSP
- **Web Synthesizer Application Development / FM, AM, Subtractive Synthesis**
  Javascript + Web Audio API
- **Web Library Development / Drsax.js**
  Javascript + Web Audio API
 - **Web Audio Editor Development / Dr.Editor**
  Javascript + Web Audio API
- **mobile media art installation / Play the light of Monet**
  Javascript + Web Audio API + Node.js
- **mobile media art installation / Composition 2017**
  Javascript + Web Audio API + Node.js
- **Web Audio Instrument Development / Webxophone**
  Javascript + Web Audio API
- **Web Audio + Hybrid saxophone interface Instrument / Dr.saxoman**
  Javascript + Web Audio API +node.js+hybrid saxophone interface
- **Web Audio Interactive Development / Dr.Websax**
  Javascript + Dr.sax.js +node.js

TEACHING

Computer Music   Hoseo Univ. 2014

Sound, Physical Computing   Culture Technology Course, Center of Arts 2014

Physical Computing   MMJW, MARTE(The Laboratory of Musical Arts and Technology), 2014

Physical Computing   MARTE WorkShop, MARTE. 2015

Physical Computing   MARTE WorkShop, MARTE. 2016

THESIS

"A study of Interactive Web Application through Web-based Audio Library Development"
D.M.A in Computer Music, Doctoral Dissertation, 2019

"Audio-visual performance by real-time timbre analyze of saxophone"
Master Thesis, 2011

"DrWebusic : Real-time Interactive Audio System on the Web"

Euy shick Hong, Journal of Digital Contents Society 2019 (KCI)

"A Study of Hybrid Saxophone Interface for Interactive Networking System"
Euy shick Hong, Jun Kim, Asia-pacific Journal of Multimedia services convergent with Art,and Humanities Sociology 2018 (KCI)

"Interactive Web Audio Networking System and Method with DrSax.js"
Euy shick Hong, Jun Kim, the 3rd International Conference on Communication and Information 2017 Tokyo uni. (SCOPUS)

"Play the light of Monet : Interactive web audio/visual networking system"
Euy shick Hong, Jun Kim, In Proceedings of Engineering and Art Society of Korea Conference, Korea 2017

"Drsax.js: a javascript based unified web audio library and framework"
Euy shick Hong, Jun Kim, International Conference on Algorithms, Computing and Systems 2017 (SCOPUS)

"Telesaxophone: hybrid Saxophone interface"
Euy shick Hong, Jun Kim, International Conference on Algorithms, Computing and Systems 2017 (SCOPUS)

"Webxophone: web audio wind instrument"
Euy shick Hong, Jun Kim, International Conference on Algorithms, Computing and Systems 2017 (SCOPUS)

"Dr.Saxophone : Hybrid saxophone interface"
Euy shick Hong, Baron Kim, Kiyeor Han, The 3rd International Conference on Systems and Informatics 2016(SCOPUS)

"A study on sound analysis and saxophone technique in Claudio Gabriele's [ARRIFLEX 35]"
Euy shick Hong, Jun Kim, In Proceedings of Engineering and Art Society of Korea Conference, Korea 2016

"A study on timbre analysis of saxophone sound by different reeds"
Euy shick Hong, Jun Kim, In Proceedings of Engineering and Art Society of Korea Conference, Korea 2015

"A study on timbre analysis of saxophone sound by different mouthpieces"
Euy shick Hong, Jun Kim, In Proceedings of Engineering and Art Society of Korea Conference, Korea 2014

Award

The 10th, Computer music and sound competition

Silver prize, Ulsan university, 2009

Published Book

Physical Computing with Arduino

ISBN:312-4324-431-234 , Realise media, 2016

Web Site

Work site -   https://drhon9.github.io/me/page/works.html
Papers : https://drhon9.github.io/me/page/paper.html

GitHub

Drsax.js : Web Audio Library -   https://github.com/drsax/drsaxCore
Various works : https://github.com/drwebsax

References

- **Prof. Jun Kim (music@dongguk.edu)**: Associate Professor, Dongguk University.

- **Dr. Hongchan Choi (hongchan@google.com)**: Tech Lead Software Engineer, Google.
Adjunct Lecturer, Stanford University.