

Akihiro Inui

Software Engineer



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EDUCATION

THE UNIVERSITY OF EDINBURGH
MSc Acoustics and Music Technology
09/2016 – 11/2017 Edinburgh, United Kingdom

TOKYO UNIVERSITY OF SCIENCE
B.E. Applied Electronics
04/2011 – 03/2015 Tokyo, Japan

PROFESSIONAL SKILLS

PROGRAMMING LANGUAGE

Python, MATLAB, C, R, PHP, Bash
HTML, CSS, JavaScript, SQL, Swift

AUDIO SIGNAL PROCESSING

Physical Modelling of Stringed Instruments
Room Acoustics Simulation
Emulation of Sound Effects
FIR/IIR Filter Design
Feature Extraction

MACHINE LEARNING / DATA ANALYSIS

Audio Classification
Natural Language Processing
Image Recognition
Pattern Recognition
Deep Neural Network

TOOLS

VSCode, Xcode, PyCharm, Git, Docker
Linux, Windows, Mac OS
Logic Pro X, Audacity, Audition
Photoshop, Illustrator
Jira, Jama, GitHub, Bitbucket

ADDITIONAL SKILLS

Experience of room acoustics measurement
Experience with single board computers
Knowledge of digital audio formats
Musical composition (DTM)
Agile development
Passion for new technology
Sound design
Quick learner

EXPERIENCE

R&D Audio Software Engineer, Denmark 10/2018 - 10/2018 – Jabra

- Investigate the neural network algorithms for audio devices
- Build a pipeline/crawler for data accumulation
- Implement the web application for the subjective listening test
- Test/evaluate the performance of the voice trigger functions

Keywords: Python, Matlab, C, PHP, SQL

Deep Learning, Audio DSP

Freelance Software Engineer, Japan 01/2018 - 09/2018

06/2018 - 09/2018 – Innovatech Studio Co., Ltd

- Develop the intent classification for QA chatbot application
Keywords: Python, NLP, Rasa NLU, word2vec, Mecab
- Implement UI part of a financial score rendering application
Keywords: Swift, Objective C, Xcode, Firebase

02/2018 - 07/2018 – Shoutoh-sha Co., Ltd

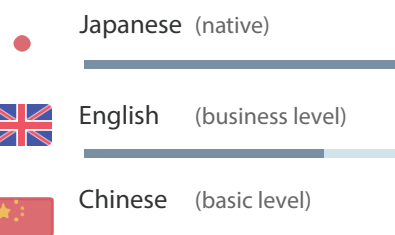
- Design and develop Wordpress based websites
Keywords: HTML, CSS, PHP, Dreamweaver, Photoshop, Illustrator

PERSONAL PROJECTS

02/2018 – Instaflly

- Developed iOS app “Instaflly” evaluates a photogenic score
It was featured on several media such as GIZMODO Japan
It reached 1000 downloads within 2weeks after the first release
Keywords: Python, Swift, CoreML, CNN, Firebase

LANGUAGES



* References available on request