

AARON MA

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EDUCATION

Hong Kong University of Science and Technology – *M.S. in Electronic Engineering* Sept 2016 – May 2017

Relevant Courses: Embedded Systems, Advanced Computer and Network Architectures, IP Networks, Image and Video Signal Processing

University of California, Irvine – *B.S. in Electrical Engineering* Sept 2010 – Mar 2015

Specialization: Digital Signal Processing

Relevant Courses: Programming in MATLAB, Signals and Systems, Machine Vision

EXPERIENCE

Panasonic Avionics Corporation – *Lake Forest, CA* July 2017 – Present

Test Engineer, Airlines Systems

- Troubleshoot Android/Linux software issues on in-flight entertainment and global communications (IFEC) systems.
- Conduct integration and validation testing in Linux environment.
- Construct scripts in Python and bash to automate testing procedures.
- Manage issue assignments for system deployment, integration, test, and software release.

Facebook – *Menlo Park, CA* June 2015 – July 2016

Public Content Contractor, Product Data Integrity

- Increased team accuracy metric by 10% by creating and leading team training procedures for 30+ hires.
- Defined evaluation guidelines for increased relevancy in discussions within Facebook commenting ecosystem.
- Evaluated qualitative data for data science team to connect users with relevant Facebook pages.

Conexant Systems – *Irvine, CA* Sept 2014 – June 2015

Engineering Intern, Product Application Engineering

- Evaluated company ASIC devices against certification requirements using ACQUA to guarantee passing results before official submission and assessment.
- Created audio data samples in controlled environments to meet specifications set by DSP team.

National Taiwan University – *Taipei, Taiwan* June 2014 – Aug 2014

Laboratory Researcher, Multimedia Information Retrieval Lab

- Developed MATLAB script that constructed frequency chromagrams, allowing the team to estimate the western musical key of given audio files without playback.

RELEVANT PROJECTS

Compare.AniList – *Python/GraphQL/SQLite*

- Data visualization web tool that queries user AniList Anime ratings, compares them against global and friend data, and outputs visuals to a webpage to provide users with better insight into their Anime preferences.

Android Applications for Productivity – *Java/Android Studio*

- Android application suite including basic games, pedometer, sketchpads, dice generators, and low power Bluetooth remote controls to exercise Java object oriented programming properties.

Programmable Multi-Effects Pedal for Electric Violins – *C/Code Composer*

- Digital multi-effects pedal with three processing effects designed for the electric violin using digital signal processing properties on Texas Instrument's DSP development hardware in fulfillment of UC Irvine's senior design project.

TECHNICAL SKILLS

Programming Languages: Java (Strong), Python (Strong), Bash (Proficient), SQL (Proficient)

Development Tools: Linux/Unix, GitHub, SQLite, GraphQL, Eclipse, Android Studio

Supplemental Courses: Object Oriented Programming in Java, Visualizing Data with Python, Data Structures and Algorithms, Databases and Web Data