Enmao Diao

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OBJECTIVE

To apply for graduate school

EDUCATION

Georgia Insitute of Technology, Atlanta, GA,

08/2012 - Present Expected in 05/2016

B.S. in Computer Science,

B.S. in Electrical Engineering,

Expected in 05/2016

Dean's List Overall & Major GPA: 4.00 / 4.00

SKILLS

- · Programming: VHDL/Verilog, C/C++, Matlab, Java, Python, PHP, MySQL, R, Android and Web development.
- · Hardware: Programming experience with Altera FPGAs, and mbed micro-controller.
- · Software: Proficiency in Hadoop, ModelSIM, Altera Quartus II Suite, Matlab, MATHCAD, MULTISIM, and LTSpice. Written proficiency in LateX and Microsoft Office. Experience in Linux and Windows operating systems.
- · Concept: FPGA Development, Telecommunication, Digital Circuit Design, Digital Signal Processing, Big Data, Data Analytics, Mobile Application and Web Application development.
- · Language: Native speaker of Mandarin, fluent English.
- · Communication: Fluent communication and technical written skills, and self-motivated in various environments.

EXPERIENCE

Undergraduate Research Assistant, Georgia Tech, Atlanta, GA,

Prof. Elliot Moore II

05/2014 - Present

- · Implement polyphonic and monophonic melody extraction algorithms.
- · Conduct Technical Review on Audio Melody Extraction based on the results from annually held conference MIREX (the Music Information Retrieval Evaluation eXchange).
- · Develop monophonic pitch transcription mobile application.

Undergraduate Research Assistant, Georgia Tech, Atlanta, GA,

Dr. Jeff Young

08/2015 - Present

· Create an FPGA-based framework for using the OpenHMC (Hybrid Memory Cube) interface for hybrid memory cubes as a research platform.

Undergraduate Research Assistant, Georgia Tech, Atlanta, GA,

Prof. Hyesoon Kim

01/2015 - 05/2015

· Implement Cellular Neural Network (CNN) on Altera ModelSIM.

Undergraduate Teaching Assistant, Georgia Tech, Atlanta, GA,

ECE 2031, Digital Design Lab

05/2014 - 08/2015

· Assist twenty students learning FPGA, oscilloscope and implementing a simple computer using VHDL.

Writer, Georgia Tech, Atlanta, GA,

Blueprint the Georgia Tech Yearbook

08/2012 - 12/2012

· Write portraits for SGA Undergraduate President and Campus Football cheerleader.

PROJECTS

Big Data Analytics: Distributed Machine Learning Algorithms, Georgia Tech, Atlanta, GA

08/2015 - Present

· Test the performance of Classification and Clustering algorithms like Naïve Bayes and Random Forest on Mahout and Spark with Million Songs and MNIST dataset and Amazon EMR.

Autonomous Sailboat for Penguin Tracking, Georgia Tech, Atlanta, GA,

08/2015 - Present

Design and implement unmanned sailboat involving embedded system, power, and web development.

· Develop a trip planner using Google and Yelp API to retrieve information of restaurants and hotels.

Library management system, Georgia Tech, Atlanta, GA,

01/2015 - 05/2015

· Design and implement a Database system using PHP and MySQL. NS2 simulation and performance evaluation of TCP, Georgia Tech, Atlanta, GA,

· Conduct simulations to compare the performance of various flavors of TCP.

03/2015 - 05/2015 05/2014 - 08/2014

Trip Planner web application design, Georgia Tech, Atlanta, GA,

Infrared Signal-Controlled DE2Bot Design, Georgia Tech, Atlanta, GA,

01/2014 - 05/2014

· Work in a group of 4 to design a warehouse robot navigation system.

AWARD

President Undergraduate Research Award (PURA), Georgia Tech, Atlanta, GA, Golden ticket of the InVenture Prize at Georgia Tech (2016), Georgia Tech, Atlanta, GA, 06/2015

12/2015