

Michael Zhang

Duke Box 97202, Durham, NC 27708 | michael.zhang@duke.edu | +1 (919) 564-8747

Education

Duke University—Durham, NC

May 2020

GPA: 3.63

Candidate for BSE in Electrical and Computer Engineering

Current Courses:

- Quantum Mechanics
- Probability for Electrical & Computer Engineers
- Marx, Nietzsche, Freud
- Ordinary & Partial Differential Equations

Leadership:

Project Manager (2017), Duke Energy Club

Work Experience

Oliver Wyman

Consulting Intern

Jun 2018 – Jul 2018

London, UK

- Researched competitors' insurance value propositions in the home-sharing market
- Created client-ready materials for Oliver Wyman partners
- Assessed the home-sharing insurance solutions and corresponding regulatory frameworks

BetterOn

Technology Intern

Aug 2017 – present

Durham, NC

- BetterOn is a training service that helps people and teams be more effectively on camera
- Built a client portal so that users can login, watch their videos, and interact with coaches
- Enabled \$7250 in revenue with 20 online users and over 70 training sessions on the client portal

Delta Music Institute

Recording Studio Intern

Jun 2017 – Jul 2017

Cleveland, MS

- Developed the recording studio website from a WordPress template
- Taught song-writing and music production techniques at the Fast Track Summer Camp

Honors/Awards

Robertson Scholar, Class of 2020

Aug 2016 – May 2020

- Full undergraduate merit scholarship to study at Duke University and UNC-Chapel Hill
- Scholars have full access to courses and privileges at both universities

International Conference on the Blues, Student Lecturer (Cleveland, MS)

Oct 2017

- The only invited student to give a 25-minute academic presentation on blues music
- Argued that the cyclic blues form pushed blues harmony away from tradition Western music

London International Youth Science Forum & CERN

2015

- Represented New Zealand at the selective international science conference
- Received full funding from the Royal Society of New Zealand

New Zealand Table Tennis Senior Men's Squad

2016

- One of the 10 athletes to represent New Zealand at international competitions

Projects

www.michael-zhang.me

Generative Music Project using Max/MSP

Jan 2018

- The program creates new music based on a set of sound files using the Max programming language
- Applied generative techniques to extrapolate from a folder sound files in .mp3 or .wav
- Used transient detection and sequences to create melodies

BetterOn Client Portal using Ruby on Rails

Aug 2017

- Developed website from scratch using Rails and various Ruby gems
- Managed project with TDD and Agile methodologies; used RSpec for continuous integration
- Worked on all aspects of the MVC framework with Bootstrap frontend and Postgres-SQL database

Duke University Integrated Design Challenge

Apr 2017

- Built a robot that follows a black line, detects color, and sends/receives data from other robots
- Programmed sensors (QTI, ColorPal, Xbee) on the Arduino-powered Boe-Bot robot
- Applied project planning techniques such as Gantt charts and detailed debugging documentation

Skills

Computing

Java, C, MATLAB, Ruby on Rails, Max/MSP, Git

Language

English, Chinese Mandarin (conversational)