BIHAN ZHUANG

EDUCATION

DUKE UNIVERSITY, DURHAM, NC

B.S. in Computer Science

B.S. in Statistical Science

Class of 2019   GPA: 3.9/4.0

RELEVANT COURSEWORK:

Software Design and Implementation

Intro to Artificial Intelligence

Computer Architecture

Discrete Math in Computer Science

Data Structures and Algorithms

Advanced Intro to Probability

Regression Analysis

Ordinary and Differential Equations

Linear Algebra and Differential Equations

Machine Learning (Coursera)

Full Stack Web Development (Coursera)

CONTACT INFORMATION:

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SKILLS

Java, HTML, CSS, JavaScript, jQuery, Bootstrap, Materialize, Flask, Heroku, MATLAB, Octave, Python, Arduino

LEADERSHIP EXPERIENCE

VICE PRESIDENT, SOCIETY OF WOMEN ENGINEERS (SWE)

Apr 2016 – present

Organized the 2016 annual trip to SWE National Conference; hosted on-campus networking events with tech companies in the research triangle.

TREASURER, HOUSE COUNCIL

Sep 2015 – May 2016

Managed the house recreational fees and organized events for 90 residents.

COMPUTER SCIENCE EXPERIENCE

RESEARCH ASSISTANT, DUKE INTELLIGENT MOTION LAB

Jan 2017 – present

Analyze a large medical dataset using machine learning techniques to predict future heart attack based on history.

1ST ANNUAL IASA STUDENT ARCHITECT

June 2016 – Sep 2016

Designed architectural details for a native grocery store shopping app: frontend – iOS in Objective C or Swift, Android in Java; backend – Node.js; payment API – Stripe's API. Collaborated with two Duke students and a BOA mentor. Key Features: Allows the customers to scan items' barcode while they shop, submit orders on mobile devices, and check out on the devices or kiosks.

WEB FRONTEND DEVELOPMENT INTERN, 35 HULIAN, XIAMEN, CHINA

July 2016 – Aug 2016

Developed frontend for a company's homepage with HTML, CSS, JavaScript, jQuery, and front-end frameworks such as Bootstrap and Materialize.

ARDUINO ROBOT DESIGNER

Oct 2016 – Dec 2016

Designed, assembled and coded an Arduino robot that was able to perform line-following using QTI sensors, detect objects' height using IR sensors, send and receive serialized messages in a group using Xbee module, and display messages on LCD.

PROJECTS

MBA DEADLINES

Jan 2017 – present

Build an all-in-one MBA application platform with two Duke Fuqua MBAs for a startup.

JUSTFORUS – PLAN REUNIONS

Jan 2017 – present

Build a web app with Flask, python and MySQL to help people plan reunions with ease.

PERSONAL WEBSITE

Dec 2016 – Jan 2017

Built with Bootstrap and jQuery. Displaying my background, projects and passion in life.

RANDOM QUOTE GENERATOR

Dec 2016 – Jan 2017

Built a random quote generator with Bootstrap, jQuery and deployed by PHP and Heroku.

SIMPLE BLOGGER

Dec 2016 – Jan 2017

Built a simple blogger with Flask, python and deployed with Heroku.

OTHER EXPERIENCE

RESEARCH ASSISTANT, THE YOU LAB, DUKE BME DEPARTMENT

Jan 2016 - present

Model the growth rate dependence of beta-lactam induced lysis in E.coli bacteria; code and operate the TECAN EVOWARE robotic system for daily experiments. Co-author of the paper to be published.

LINEAR ALGEBRA TUTOR, CHINESE TUTOR, DUKE ACADEMIC RESOURCE CENTER

Aug 2016 – present

Taught Linear Algebra and Chinese.