BIHAN ZHUANG

EDUCATION

DUKE UNIVERSITY, DURHAM, NC

B.S. in Computer Science

B.S. in Statistical Science

Minor in Mathematics

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

Ordinary and Differential Equations

Linear Algebra and Differential Equations

Computational Methods in Engineering

Fundamentals of ECE

Machine Learning (Coursera)

Full Stack Web Development (Coursera)

CONTACT INFORMATION:

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linkedin.com/in/bihan-zhuang

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 2016 – May 2016

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

COMPUTER SCIENCE EXPERIENCE

RESEARCH ASSISTANT, DUKE INTELLIGENT MOTION LAB

Dec 2016 – present

Optimizes a clinical decision support framework in stroke treatment that can
dynamically recommend optimal treatment plans with respect to both patient outcomes
and expected treatment cost. The system uses POMDP and was written in Python.

1ST ANNUAL IASA STUDENT ARCHITECT

June 2016 – Sep 2016

Project: Grocery store shopping app solution architecture. *Key Features*: Allows the
customers to scan items' barcode (UPC) while they shop, submit orders on mobile
devices, and check out on the devices or kiosks without having to wait in long lines.
Native app: frontend – iOS in Objective C or Swift, Android in Java; backend – Node.js;
payment API – Stripe's API.

WEB FRONTEND DEVELOPMENT INTERN, 35 HULIAN, XIAMEN, CHINA

July 2016 – Aug 2016

Obtained valuable insight working in a well-known company; used HTML, CSS,
JavaScript, jQuery, and front-end frameworks such as Bootstrap and Materialize to make
responsive websites.

ARDUINO ROBOT DESIGNER

Oct 2016 – Dec 2016

Designed, assembled, coded an Arduino robot that line-follows using QTI sensors
(forward, backup, turn, stop), detect objects' height using IR sensors, serial send and
receive messages from other robots using Xbee module, and display messages on LCD.

MEMBER, DUKE MACHINE LEARNING AND DATA SCIENCE CLUB

Nov 2016 – present

Works on natural language processing.

PROJECTS

PERSONAL WEBSITE

Jan 2016

View at bihanzhuang.github.io. Built with Bootstrap and jQuery. My personal hub for displaying my
background, projects and passion in life.

RANDOM QUOTE GENERATOR

Jan 2016

Simple random quote generator built with Bootstrap, jQuery and deployed by PHP and Heroku.
Go to https://rdm-quote.herokuapp.com to see it!

FIRST WEB APP

Jan 2016

Made a simple blogging app with Flask and deployed by Heroku.

OTHER EXPERIENCE

RESEARCH ASSISTANT, THE YOU LAB, DUKE BME DEPARTMENT

Jan 2016 - present

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

PEER TUTOR, DUKE ACADEMIC RESOURCE CENTER

Aug 2016 - present

Taught Linear Algebra and Chinese and helped students make improvements.