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

Online Independent Coursework:

Machine Learning
Full Stack Web Development

Honor:

Dean's List with Distinction

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SKILLS

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

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.

FRONTEND DEVELOPER 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 Materalize to make responsive websites.

ARDUINO ROBOT DESIGNER

Oct 2016 – Dec 2016

Designed, assembled and coded an Arduino robot that is able to follow lines using QTI sensors (forward, backup, turn, stop), detect the height of objects using IR sensors, serial send and receive messages from other robots using Xbee module, and display messages on LCD.

OTHER 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.

MEMBER, DUKE MACHINE LEARNING AND DATA SCIENCE

Nov 2016 – present

Works on natural language processing.

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.