# **Guozhi Tang**

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## **EDUCATION**

## Northeastern University, Boston, MA

December 2019

Master of Science in Computer Software Engineering

Relevant Courses: Data Management and Database Design, Program Structure & Algorithms, Enterprise Software Design (RIA Design/J2EE), Parallel & Multithreaded Program, User Experience Design and Testing, Cryptocurrency & Smart Contract

## University of Glasgow, Scotland, UK

June 2017

Bachelor of Engineering (Honors) in Electronic Engineering

#### TECHNICAL SKILLS

Programming languages: Java, JavaScript (NodeJS, Angular, TypeScript), PHP, C, HTML/CSS, SQL, Solidity

Frontend: Angular/AngularJS, Bootstrap, React, jQuery

## PROFESSIONAL EXPERIENCE

# Abcam, Cambridge, MA

January 2019-August 2019

## Software Engineer Co-op

- Built a MEAN (MongoDB, Express, Angular, NodeJS) stack web application for the chemical engineers which provided instructions to the robots in the manufacturing area with agile development methodology. The web application communicated with internal mongo database and a central server which was developed in python in another project.
- Combined previously separated web projects into a unified and structured environment.
- Familiarized the **PostgreSQL** database structure with psycopg2. Tested and designed the database using pgAdmin3.
- Reduced the regular setup time for laboratory engineers by nearly 60% to 100% using internal web application.

## **ACADEMIC PROJECT**

#### **Northeastern University**

July 2019

## **AWS WordPress Personal Blog**

- Applied WordPress (a Content Management System) with PHP and MySQL to build an AWS live blog
- Created VPC, EC2 instance, RDS and SNS. Managed ELB for AutoScaling: increased group size when CPU Utilization was more than 80% and decreased that when less than 30%. Completed the personal domain with Route53 and GoDaddy.com. Used CloudWatch to set alarms and OpenVPN to secure the remote access.

#### **Northeastern University**

May 2018-June 2018

## **Personal Medical Website**

- Researched the complexity of online medicine purchase. Designed a personal medical website which had BBS system and could buy the medicine according to the medical histories which were updated by the doctor.
- Applied Maven to build the project. Used jQuery as well as Bootstrap for the front-end framework. Developed back-end by using Spring and Hibernate frameworks. Designed database by using MySQL.
- Settled different levels of users for different functionalities. Only administrator level users such as physicians and suppliers could edit the medical history or the inventory.

## **Northeastern University**

November 2017-December 2017

## **Genetic Algorithm Application**

- Genetic Algorithm is to model the search for a solution in the same way that organisms in nature are adapted to their environment and lifestyle. This application is to show the genetic process for trees with **Java GUI**.
- Used **Swing** components to build **Java GUI**. Created three rules for breeding with angles and lengths for branches.
- Application started with generation 0 from which successive generations were bred. In each generation new organisms were given birth to which were based, genetically, on the organisms which were fit for rules.