Zhitong Zhang

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Education

Tufts University, Medford, MA   Class of 2022
Bachelor of Science in Data Science, Computer Science, and Math
Minor: Engineering Management
GPA: 3.88/4.0

Professional/Tech Experiences

Tufts JumboCode   Medford, MA
Head Of Operations   January 2019- Present
Developer   September 2018- Present
- Manage and oversee day-to-day operations of 8 individual projects that develop a variety of mobile and web application for non-profit clients.
- Act as the main person of outreach for the club.
- Work in a team of both Designers and Engineers to provide a web application that displays a comprehensive map view of Bi+ organizations and events based on geographical locations, along with basic contact/sign-up guides.
- Utilize React.js and Node.js to develop a custom map-based web search for the National Bisexual Resource Center.

Tufts CS/EE Department   Medford, MA
EN1 - Computational Design TA   January 2019 - Present
- Hold weekly office hours, where students are able to improve their problem solving, testing, and debugging skills.
- Grade homework and exams written in MATLAB, all while giving feedback on how to write more effective code.
- Lead labs that consisted of concepts and implementations from the week's lecture.

Bank Of America   Manhattan, NY
Digital Ambassador Intern   June 2018- August 2018
- Engaged, informed, and assisted clients on how to conduct simple transactions through self-service technologies.
- Ensured clients are connected to the appropriate experts to help them achieve their financial goals; make sure service and specialized needs are met.
- Leveraged available resources and technologies (such as tablets and bank by appointment) to optimize the client experience and serve our clients with operational excellence and accuracy.
- Answered inquiries (loans, credit card, debit card, etc) in a professional and composed manner.

Projects

IBM Call for Code   Online Codeathon -July 2019
- Implemented data visualization on NASA weathering dataset to aid in the effort of creating an app that incorporates an optimal machine learning model that predicts natural disasters before they happen. (Python)
- Utilized NASA LIS (Lightning Image Sensor) API to create a probability map of "danger zones" in the San Diego area.

2048 Extravaganza   June 2019
- Generalized the popular 2048 game to NxN dimensions.
- Implemented A* search algorithm on non-random version of 2048 to suggest player on best possible move. (C++)

Decision Tree in C++
- Created a supervised machine learning model using only basic math functions and basic data structures in C++.
- Explored the utilization (pros/cons) of basic counting heuristic vs. information theory related info-theoretic heuristic for the choice of a node within a decision tree.

Leadership Experience

FLHS JROTC (Junior Reserve Officers' Training Corps)   Fresh Meadows , NY
Cadet/Squad Leader   September 2014- June 2017
Company 1st Sergeant   June 2017- June 2018
- Influenced over 150 cadets to become better citizens.
- Trained my company to develop necessary leadership and communication skills.
- Carried out several service learning project to give back to the community.
- Hosted a local food drive to aid homeless, received over 400 lb of canned goods.

Technical Skillset

Programming Languages: C++, C, JS, Python, Matlab, C#
Tools/Frameworks/Other-Tech: HTML/CSS, NumPy, Pandas, jQuery, Bootstrap, Angular
Databases: MongoDB and MySQL