

Zisheng Cai

zisheng.cai2000@gmail.com | +1 (712) 650 0367 | github.com/llbblbb2000 | linkedin.com/in/zisheng-cai/

Education

Brandeis University

08/2022 – 05/2024

M.S. in Computer Science

GPA: 3.75/4, Courses: Java programming, Data Structures, Machine Learning

Dalian University of Technology

09/2018 – 06/2022

B.E. in Environmental and Ecological Engineering

GPA: 86.9/100 (top 20%), The Second Prize Scholarship

Skills

Programming Language: Python, C/C++, Java, HTML/CSS, JavaScript

Technologies: Git, Bash, Bootstrap, MySQL, MongoDB, jQuery, RESTful, Node.js, React.js

Experience

XPeng Motors

12/2021 – 05/2022

Data Analyst Intern, Autonomous Driving Center

- Analyzed over 10 million pieces of automatic parking data and implemented data visualization to find the performances of the algorithm in over 10 different situations
- Optimized the structure of one database about the parking algorithm using NoSQL and reduced at least 20% running time when searching data
- Modeled the data with several statistical methods in 2 unique ways, reported results, and make recommendations to improve the algorithm

Projects

Personal Blog Website

- Designed the user interfaces using HTML5, CSS, Bootstrap, JavaScript, jQuery
- Built the RESTful APIs by object-oriented code in Node.js to implement CRUD operations on MongoDB database
- Developed the React Router DOM to allow nested RESTful routing

TCP/IP Protocol

- Created a simple TCP/IP protocol in C++ on a Linux operation system
- Using 3 data structures to maintain the TCP byte streams and achieve the TCP connection

Cancer Detection

- Devised a convolutional neural network(CNN) image classification system to detect cancer in over 0.2 million pathology images with Tensorflow and Keras
- Reduced overfitting by using dropout layers and improved accuracy from 80% to about 90% by parameter optimization
- Constructed a React app as front-end and flask in Python as back-end.