

# TIANLE DONG

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Available: Aug. 2021 – Dec. 2021 / Jan. 2022 – Apr. 2022

## EDUCATION

### Northeastern University

Khoury College of Computer Sciences

*Master of Science in Computer Science*

Relative Course: Object-Oriented Design, Web Development, Algorithms, Intensive Foundations of Computer Science, Discrete Math and Data Structures, Database Management Systems, Fundamentals of Computer Networking & Computer System

**Boston, MA**

Sept. 2019 – Present

Expected Graduation: May 2022

### Northeastern University

*Bachelor of Science in Leadership*

Honors/Awards: *summa cum laude & Dean's List*

**Boston, MA**

May 2017 – May 2019

## EXPERIENCE

### PTC

*People Analytics Intern*

**Boston, MA**

Jun. 2021 – Aug. 2021

- Collecting data from multiple teams and different platforms to build a data analysis tool using **Excel, SQL, Python (Pandas, NumPy & NLTK), Power BI** and **Visier**
- Optimizing **Python** code base to speed up master file creation

### Northeastern University Information Technology Services

*Instructional Assistant*

**Boston, MA**

Aug. 2020 – Apr. 2021

- Assisted professors with classroom technology and facilitated interactions with remote learners to ensure well-functioning classes

## TECHNICAL KNOWLEDGE

<b>Languages:</b>	C, Java, JavaScript, Python, TypeScript, R, SQL
<b>Software and Tools:</b>	Git, GitHub, Junit, IntelliJ IDEA, PyCharm, VS Code
<b>Database:</b>	PostgreSQL, MySQL, MongoDB, SQLite
<b>Web Technologies:</b>	Angular, Ajax, Bootstrap4, CSS3, Django, Express.js, Flask, jQuery, Jinja2, Heroku, HTML5, Node.js, React.js, Redux, RESTful API, Spring Boot

## PROJECTS

### CDN

Apr. 2021

- Used **Python** to implement a CDN that consists of a DNS server and an HTTP server redirects clients to the EC2 replica server which has the fastest response time and returns content requested by clients
- Followed the **Zipf distribution** to design an LRU cache in the HTTP server using a file system
- Ranked 2<sup>nd</sup> place in the TopCDN competition with the highest OK rate (98.7%) and the second lowest median latency (0.666)

### EONET

Jan. 2021

- Created an Earth observatory natural event tracker web app with **React, Google Maps API** and **NASA EONET API**
- Fetches natural event data (wildfire, cyclone, volcano & iceberg) and displays it on Google Maps, allowing users to click the event icons to get detailed information

### Trip Planner

Sept. 2020 – Dec. 2020

- Developed a full-stack trip planning web app using **MERN** stack with **Google Maps API** and **Google Place API**
- Allows users to browse tourist attractions, plan trips, share plans and view other users' plans. Administrators can manage users' account by deleting and editing plans

### Gino's Pizza

Jul. 2020 – Aug. 2020

- Designed a full-stack pizza website that handles online orders using **Python Django** framework with **HTML5, Heroku, CSS3, JavaScript, PostgreSQL, Bootstrap4** and **Stripe API**
- Allows users to browse the menu, add items to the cart, and make a purchase. Owners are able to add and update dynamic menu items, view orders and change order status using Django Admin UI

### Book Reviews

Jun. 2020

- Built a full-stack book review website using **Python Flask** framework, **HTML5, Heroku, Bootstrap4, CSS3, PostgreSQL** that pulls real-time data from **Open Library API**
- Supports user sign in, sign up, search, comment and able to view comments, ratings