TIANLE DONG

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EDUCATION

Northeastern University   **Boston, MA**
Master of Science in Computer Science   Sept. 2019 – Present
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

Northeastern University   **Boston, MA**
Bachelor of Science in Leadership   May 2017 – May 2019
Honors/Awards: *summa cum laude & Dean's List*

EXPERIENCE

PTC   **Boston, MA**
People Analytics Intern   Jun. 2021 – Present

- Collecting data from multiple teams and different platforms and work with stakeholders to build reusable data analysis tools using **Excel**, **Python** (**Pandas**, **NumPy, TKinter** & **NLTK**), **Power BI** and **Visier**
- Optimizing **Python** code base to speed up master file creation

Northeastern University Information Technology Services   **Boston, MA**
Instructional Assistant   Aug. 2020 – Apr. 2021

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

TECHNICAL KNOWLEDE

Languages:	C, Java, JavaScript, Python, TypeScript, R, SQL
Software and Tools:	Git, GitHub, Junit, IntelliJ IDEA, PyCharm, VS Code
Database:	PostgreSQL, MySQL, MongoDB, SQLite
Web Technologies:	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 2nd 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 Web App   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