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

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

- Partner with internal/external data and system resources to extract raw data from multiple teams/platforms and perform cleaning, modeling, analysis and visualization
- Collaborate with stakeholders to clearly understand analytical needs and transform complex data to human-readable reports/dashboards to solve business problems

Graduate Research Assistant	Nov. 2021 – Present
Khoury College of Computer Sciences	**Boston, MA**

- Scraping and extracting data related to gender and sex from government websites for the Gender Binary in Law research project under Professor Ari E. Waldman

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

- 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, Power BI, Visier
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 that 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