

TIANLE DONG

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GitHub: <https://github.com/tianledong> | Portfolio: <https://tianledong.github.io>
LinkedIn: www.linkedin.com/in/tianledong | Availability: May 2022

EDUCATION

Northeastern University

Master of Science in Computer Science

Boston, MA

Sept. 2019 – Present

Northeastern University

Bachelor of Science in Leadership

Boston, MA

May 2017 – May 2019

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

EXPERIENCE

Graduate Research Assistant

Khoury College of Computer Sciences

Nov. 2021 – Feb. 2022

Boston, MA

- Worked closely with Professor Ari E. Waldman to identify the data requirements for the Gender Binary in Law project
- Analyzed the target government websites and adjusted the scraping algorithm accordingly to fetch data via **Python** libraries **Beautiful Soup**, **Selenium**, **requests** etc.
- Leveraged Natural Language Processing to design a parsing algorithm to remove duplicate data, check language and extract gender keywords using **Pandas**, **NumPy**, **TextBlob** etc.

People Analytics Intern

PTC

Jun. 2021 – Dec. 2021

Boston, MA

- Leveraged data center APIs to design an automated process that fetches cleaned data to be stored in the Azure cloud
- Partnered with internal/external data and system resources to extract raw data from multiple teams/platforms and performed cleaning, modeling, analysis and visualization
- Collaborated with stakeholders to clearly understand analytical needs and transform complex data to human-readable reports/dashboards to solve business problems

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, Selenium, 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