

# Xinyu Tang

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## Profile

I am a new computer science graduate who is excited to start a career in software development. My goal is to become a front-end developer, utilizing my full-stack coding skills and UI/UX design ability to gain as much experience as possible. In my last internship, compared to the data management part of my job, I was more interested in front-end development.

## Projects

### **Full-stack Social Media App**

- Built a twitter-like social media app in which users can post, retweet, like, comment on different posts, edit their personal profiles, and retrieve images from *AWS* using *React*
- Developed *Restful APIs* using *node.js* and built *NoSQL* database using *mongoDb*
- Challenges included implementing *JWT authentication*, creating good *UX* experience, implementing notification features and deployment on *Cloud*

### **Full-stack Blackboard Website**

- Build a *responsive* blackboard website where teachers can create courses with different modules, sections with *dynamic UI*; students can browse, search and register courses
- Developed *Restful APIs* using *JavaSpring Boot*, and built *NoSQL* database using *mongoDb*
- Challenges included designing and implementing unit tests using *Jest*

### **Front-end Food Ordering Website**

- Built a *responsive* website, where users can select foods, place orders, and check their past orders after being authenticated using *React*, *Redux*, *Firebase*

### **Game Development**

- Developed and deployed Super-Mario and Tetris game using *vanilla Javascript* and *Canvas*

## Education

09/2018 – 12/2020 BOSTON, UNITED STATES

### **Data Science, College of Computer Science | MS Northeastern University**

**GPA:** 3.4/4.0 **Selected Courses:** Algorithm, Web Development, Deep Learning, Database Management, Machine Learning

09/2013 – 09/2017 BOSTON, UNITED STATES

### **Mathematics and Psychology (double major) | BA Boston University, College of Art & Science**

**GPA:** 3.2/4.0 **Selected Courses:** Introduction to Computer Science (Java), Data Structure,

## Skills

**Frontend:** *Javascript, React, Redux, RestAPI, HTML5, CSS3, Material-UI, Bootstrap, JQuery, SASS*

**Backend:** *Node.js, Express, GraphQL, MongoDB, SQL, NoSQL, Java, Spring Boot*

**Testing:** *Jest, Jasmine, Enzyme*

**Other:** *BASH, JWT, Git, AWS, Google Cloud, Agile, Webpack*

## Work experience

01/2020 – 06/2020 CAMBRIDGE, UNITED STATES

### **Data Science Intern Casma Therapeutics**

- Developed and deployed *interactive web applications* to provide insight about gene expressions for scientists using *Rshiny, HTML, CSS, and Javascript* on *AWS*
- Aggregated and transformed data from external data sources via *API* to build our datasets using *python*
- Engineered data *pipelines* and provide automated solutions for the computational biology team

01/2019 – 12/2019 BOSTON, UNITED STATES

### **Computer Science Research Assistant Barabasi Lab (Northeastern University)**

- Performed data cleaning, wrangling on 36 millions of records using *Google Cloud* Compute Engine
- Build large-scale batch and real-time data *pipelines* with data processing frameworks using *python* on the *Google Cloud Platform*
- Successfully replicated and improved results of a network science paper published in *Science*

01/2018 – 05/2018 BEIJING, CHINA

### **Data Analyst Intern Apple Inc.**

- Analyzed and summarized weekly reports of sales pipeline using *Excel*

## Certificates

### **W3Cx Front-end Web Developer Edx**

### **Calarts UI/UX Design Specialization Coursera**

### **Front-end Web Design Freecodecamp.com**