

Benjie Tong

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TECHNICAL SKILLS

- **Languages:** Java, Javascript, Python, HTML5, CSS3, JSX, Typescript, MySQL, C, C++, Shell Script, PHP, Verilog
- **Front-End:** React, Redux, JQuery, Javascript, SigmaJS, ECharts, ES6, D3js, Semantic, Bootstrap, Webpack, Express
- **Back-End:** Java Spring Boot, Flask, NodeJS, Postgresql, Sqlite3, AWS, Nginx, Celery, Elasticsearch, Redis, Tomcat

PROFESSIONAL EXPERIENCE

- Senior Software Engineer at Didi USA Inc** **03/2021-Present**
Digital Wallet Whatsapp Chatbot Application **Mountain View, CA**
- Contributed in developing chatbots to integrate company's digital wallet's features into whatsapp to increase users.
 - Designed and implemented frontend H5 webpages and APIs by using JQuery and HTML in Java Spring Boot.
 - Contributed in processing and analyzing users data in order to do user growth and design products using MYSQL.
 - Helped to implement the interfaces between whatsapp backend and digital wallet micro-services by using Java.
- Senior Software Engineer at Intellipro Group Inc** **11/2020-03/2021**
GEIRINA Grid Eye Web Application **San Jose, CA**
- Contributed in developing Smart Grid Analysis Platform to help detect real-time and potential risks of grid damping.
 - Designed and implemented frontend visualizations and APIs by using Javascript and Leafetjs in Java Spring Boot.
 - Accessed machine learning results in MySQL database and processed data for frontend usage by using Java.
- Senior Software Engineer at Graphen Inc** **05/2019-10/2020**
Bank of China Cyber-security Web Application **New York, NY**
- Contributed in developing cyber-security application to help the bank to detect abnormal behaviors among employees.
 - Implemented all frontend logics and interfaces by using React framework and Redux.
 - Developed all visualizations of backend calculated results by using visualization tools. (D3JS and 3D Force Graph).
 - Helped to do some data cleaning and data processing jobs by using Python and Elasticsearch database.
 - Established production servers (based on Flask servers) by using Nginx and WSGI(Gunicorn) with load balancers.
- Transunion Credit Prediction Web Application** **New York, NY**
- Contributed in developing an application to predict users' personality and credit by using tweets and other information.
 - Designed and implemented all frontend visualizations and APIs by using Echarts and Mapbox in Java Spring Boot.
 - Loaded machine learning results into Postgresql database and processed data for frontend usage by using Java.
 - Created backend server using Java Spring Boot framework and deployed the whole system into Amazon Web Service.
- Software Engineer at Graphen Inc** **06/2017-05/2019**
Graphen Ardi Graph Database Platform **New York, NY**
- Led, architected and participated in the design and development of company's own graph database platform Ardi.
 - Designed and implemented frontend features for company's products (database, machine learning) by using React.
 - Used Python and Java to do data processing by using Elasticsearch and Graph database.
 - Created backend server to connect products' APIs and processed results for frontend usage by using Python Flask.
 - Established user management of the platform by using traditional SQL database(sqlite3) and Python.
- Industrial and Commercial Bank of China Dynamic Graph Application** **New York, NY**
- Contributed in developing an application to detect daily relationships between banks' customers.
 - Implemented all front-end logics and interfaces by using JQuery, HTML and CSS.
 - Used graph visualization tool SigmaJS and Echarts to visualize the relationships based on data from graph database.
 - Designed and helped to implemented interfaces between front-end and back-end (Java).
- Visiting Researcher at IBM T.J Watson Research Center** **02/2017-06/2017**
Bank of China Trade Finance Web Application **New York, NY**
- Developed a web application to help BOC verify the correctness of their customers' bills to avoid money laundry.
 - Implemented crawlers to gather information from internet and compared with the information in the bills using Python.
 - Helped implement frontend features and interfaces to show the compared results and evidence by using Javascript.
- ## EDUCATION
- Columbia University, Fu Foundation School of Engineering and Applied Science** **New York, NY**
MS in Computer Engineering **09/2015-12/2016**
- University of Arizona** **Tucson, AZ**
MS in Electrical and Computer Engineering **08/2014-05/2015**
BS in Electrical and Computer Engineering **08/2010-05/2014**
Minor in Mathematics