

Benjie Tong

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TECHNICAL SKILLS

- **Languages:** Python, Javascript, Java, 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:** Flask, Java Spring Boot, NodeJS, Postgresql, Sqlite3, AWS, Nginx, Celery, Elasticsearch, Redis, Tomcat

PROFESSIONAL EXPERIENCE

Senior Software Engineer at Intellipro Group Inc

11/2020-Present

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.

Bank of China Smart-DD Web Application

New York, NY

- Contributed in developing a due diligence web application to help user detect money laundry behaviors.
- Created servers for AI and data collector modules by using Python Flask and asynchronous library Celery and Redis.
- Established production servers (based on Flask servers) by using Nginx and WSGI(Gunicorn) with load balancers.
- Created server for frontend usage to assemble and process data by using Java Spring Boot framework.
- Implemented front-end visualizations for rendering AI results by using Javascript, HTML and CSS.

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