

Yingzhe Dong

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EDUCATION

Boston University

Master of Science in Computer Science

Boston, MA

Sept. 2022 – Jan. 2024

Northeastern University

Bachelor of Economics in Fintech, Minor in Software Engineering, GPA: 3.87

Shenyang, CHN

Sept. 2017 – June 2021

PUBLICATION

BELT: A Pipeline for Stock Price Prediction Using News

Yingzhe Dong, Da Yan, Abdullateef Ibrahim Almudaifer, Sibio Yan, Zhe Jiang, Yang Zhou

IEEE Big Data

Oct. 2020

EXPERIENCE

OPPO

Software Engineer Intern

Apr. 2022 – July 2022

Beijing, CHN

- Created a face detection software module and integrated it into CV SDK using **C++**, which was used 800+ times.
- Applied **MNN** and **SNPE** engines to deploy models on **CPU** and **DSP** chips on the **ARM** architecture.
- Tested the performance of CV models on the mobile side by leveraging **Android Debug Bridge (ADB)**.
- Developed tools with custom model quantization and operator introduction functions by **C++** and **Flatbuffers**.
- Built a functional software module that can fuse multiple **TFLite Graphs**, reducing 60% message transfer time.

Kuaishou Technology

Data Analyst Intern

Nov. 2020 – Feb. 2021

Beijing, CHN

- Set up a department **data center** from 0 to 1; drove and led the data reform and innovation.
- Utilized **SQL** to retrieve data from **Hive table** and completed over 1,500 SQL queries.
- Devised a visual **data dashboard** and a departmental **data warehouse**, decreasing data-querying time by 70%.
- Upgraded analytics tools by adding sensitive video title capture function using **Python**, serving over 2,000 users.

PROJECTS

FullStack E-Commerce Microservices App

May 2022 – July 2022

- Designed a front-end **React App** with server-side rendering by leveraging **JavaScript**, **Next.js**, and **Hooks**.
- Used **TypeScript**, **Express**, **Node.js**, **MongoDB**, and **Redis** to establish a back-end system for ticketing.
- Implemented the communication between microservices through **NATS Streaming Server**.
- Deployed the entire app in **Docker** containers and executed it in the **Kubernetes** cluster with **Ingress-NGINX**.
- Facilitated the development by managing the App with **Scaffold** and deploying it on **Google Cloud Platform**.
- Constructed a reusable shared library with middlewares, events, and error handling modules by **NPM** and **Git**.
- Tested the availability of each service using **Postman**, **Jest**, **MongoMemory Server**, and **SuperTest**.

FullStack Todo Management App

Feb. 2022 – Mar. 2022

- Developed todo management interfaces via **TypeScript** and **Angular** with **Bootstrap**.
- Built back-end services using **Java** and **Spring Boot**, designed and managed **RESTful API** with **Swagger**.
- Implemented user authentication and authorization by **Spring Security** framework and **JWT**.
- Connected the API to **H2** database with **Spring Data JPA** and **Hibernate**.
- Deployed the fullstack application on **AWS** by using **AWS Elastic Beanstalk** and **S3**.

High Performance Social Platform

Nov. 2021 – Jan. 2022

- Used **Thread Pool**, **Epoll** and **Main-Sub Reactor** mode to develop a **High-Concurrency Server** by **C++**.
- Achieved a performance level capable of handling over 10,000 concurrent connections.
- Created 3 management services for users, relations and messages, and stored the data in **MySQL** database.
- Applied **Protocol Buffers (Protobuf)** to serialize the data, saving over 40% message storage space.
- Constructed a front-end social platform interface using **Qt** and connected it to back-end services through **Socket**.

TECHNICAL SKILLS

Languages: Java, C, C++, JavaScript, TypeScript, Python, SQL, HTML/CSS

Database: MySQL, Redis, MongoDB, H2

Frameworks: Spring Boot, Spring Security, Angular, React, Node.js, Express.js, Next.js, Bootstrap, TensorFlow Lite

Tools: Git, Maven, Docker, Kubernetes, Scaffold, Postman, Hibernate, Qt, Swagger, ADB, Linux, VS Code, Eclipse