

Jingwei Ma

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Summary:

Seeking a full-time software engineer position starting from June 2025. Master degree with strong programming, analytical and designing skills. A wide range of project experience on web development, machine learning, and mobile development. Strong knowledge of computer science and solid programming skills in Java, , HTML/CSS and Python, JavaScript, Kotlin, Go.

Education:

Boston University

Master of Science in Computer Science

September 2023 - May 2025

Chongqing University of Posts and Telecommunications (CQUPT)

Bachelor of Science in Information Engineering

September 2019 - June 2023

Technical Skills:

Programming Languages: Java, JavaScript, Python, Kotlin, Go

Web Development: ReactJS, Ant Design, HTML/CSS, Spring Boot, Spring Data JDBC, Express, Node.js

Mobile Development: Kotlin, Jetpack

Databases and Cloud: PostgreSQL, MySQL, ElasticSearch, Room, AWS (RDS, ECR), GCP (GCE, GAE)

AI & Machine Learning: TensorFlow, Anaconda, Langchain, Image Processing, Neural Networks

Others: RESTful APIs, JSON, OIDC, Git, Agile methodology

Internship:

SafeQual

Plainview, New York

React Development Intern July 2024 - Sep 2024

- Developed RESTful React components using JavaScript/ECMAScript and TypeScript.
- Utilized React frameworks and toolchains for scalable front-end solutions.
- Applied HATEOAS constraints to enhance API usability and consistency.
- Implemented OIDC authentication flow for secure user authentication.

Chongqing Liangjiang Semiconductor Research Institute Co., Ltd. Chongqing, China

- During the internship, activities involved learning software like Anaconda, Python, TensorFlow, and PyCharm; setting up and managing conda environments; mastering basic image processing and understanding neural networks, image style transfer, face recognition, and segmentation methods; and studying regression and clustering algorithms.

Projects:

Online Order: Online Food Ordering Web Application

Tech Stack: Spring Boot, Spring Data JDBC, PostgreSQL, AWS RDS, Spring Security, ReactJS, Ant Design, AWS ECR, AWS App Runner

Features:

- Developed CRUD REST APIs with Spring Controllers for user registration, menu searching, ordering, and checkout.
- Utilized Spring Data JDBC to interact with a PostgreSQL database on AWS RDS.

- Implemented session-based authentication through Spring Security.
- Created a ReactJS and Ant Design frontend, containerized and deployed on AWS App Runner for scalability and accessibility.

Link: <https://3fhpx6cfcs.us-east-2.awsapprunner.com/>

Around: A Cloud and React based Social Network Frontend

Tech Stack: React JS, Google Cloud (App Engine), ElasticSearch, GCE

Features:

- Designed and implemented a social network web application for users to create and browse posts.
- Enhanced authentication using token-based registration/login/logout flow with React Router v4.
- Backend: Scalable Go web service for posts, deployed to Google Cloud App Engine.
- Utilized Elastic Search for search functionality, deployed to GCE.

Link: <https://dev6936.d3b03ptl2vvax6.amplifyapp.com/>

PDF Helper :Full-Stack Web-Based Q&A AI Agent for PDF Document Queries

Tech Stack: React, Ant Design, Express, Node.js, OpenAI's GPT-3.5 Turbo API, Langchain

Features:

- Engineered an interactive conversational UI leveraging React and Ant Design, enabling users to effortlessly upload and interact with PDF documents in real-time.
 - Architected and implemented RESTful APIs via Express and Node.js, optimized for high- performance request handling.
- Utilized a memory vector store to cache generated embeddings for efficient retrieval.
 - Integrated OpenAI's GPT-3.5 Turbo API and Langchain technologies, resulting in a sophisticated AI Agent capable of document loading, splitting, storage, retrieval, and output functionalities.

Link: <https://github.com/MJW2001/PdfHelper>

MiniSpotify: Kotlin Spotify Favorite App

Tech Stack: Kotlin, Android Jetpack Library, Hilt Dependency Injection, Jetpack Navigation, Retrofit, Jetpack Compose, Room Database, Google Exoplayer

Features:

- Designed a Spotify favorite app with Android Jetpack and Hilt, featuring BottomBar and Jetpack Navigation.
- Utilized Retrofit to handle requests for a mock RESTFUL API using json-server.
- Developed the feed, album, and favorite UI in Jetpack Compose following the MVVM architecture.
- Implemented local caching with Room Database and integrated Google Exoplayer for global music playback.