

Yijun Zhong

PROFESSIONAL SKILLS

- **Technologies:** TypeScript, Node.js, NestJS, Next.js, React, GraphQL, MySQL, Java, Kubernetes

EXPERIENCE

- **Labsify**

Staff Software Engineer

Remote, China

Aug. 2020 - Feb. 2023

- **1. Unico:** Unico is a modern, headless digital business product built with cutting-edge web technologies such as TypeScript, Node.js, NestJS, GraphQL, etc. It is designed to be fast, flexible, and scalable, making it an excellent choice for all sizes of businesses.
- Unico is built with a modular architecture so that we can extend its functionality or build our own custom solutions as required. Unico supports customized storefronts, payment methods, and shipping providers, so we can tailor products to meet their specific needs.
- Responsible for technical research, architecture design, and code implementation.
- **(1) Architecture:** The architecture of Unico includes the following main components: UnicoServer, UnicoWorker, UnicoPlugins, and GraphQL API.
- **(2) UnicoServer:** The UnicoServer is the core component of the product. It provides the essential functionality required to manage an online business, such as product management, order processing, customer management, payment processing, multi-language support, and shipping integration.
- The UnicoServer uses relational databases such as MySQL, PostgreSQL, or SQLite to store and manage data and manages database connections, migrations, and interactions using TypeORM.
- The UnicoServer component includes a set of entities, services, and utilities that can be used by other modules. These entities represent the different data models, such as products, orders, customers, countries, sessions, and payments. The services provide the business logic required to manage these entities, such as creating, updating, and deleting operations.
- **(3) UnicoWorker:** The UnicoWorker is a NestJS standalone application that is responsible for processing long-running or resource-intensive tasks in the background, such as sending emails, updating indexes, and generating reports. It improves the overall performance and responsiveness.
- The UnicoWorker process executes the job and updates its status in the job queue. It executes tasks asynchronously in the background, which improves the product's performance and enhances the user experience.
- **(4) GraphQL API:** The Unico GraphQL API is a flexible and efficient way to interact with the platform. The API is built using GraphQL, which provides an efficient way to request and receive data from the server.
- The Unico GraphQL API provides a wide range of functionality for managing an online business, including product management, order management, customer management, asset management, and customizable promotion. It allows clients to query and mutate data using a single endpoint and reduces the number of requests required to build an application.
- **(5) UnicoPlugins:** The UnicoPlugins component is a key feature that allows third parties to extend the functionality of the platform by adding custom business logic, creating new features, or modifying existing ones to meet specific business requirements.
- **(4) Technologies:** TypeScript, Node.js, NestJS, Next.js, React, GraphQL, TypeORM, MySQL, PostgreSQL
- **2. Meka:** Meka is a Decentralized, Multichain DeFi Yield Aggregator that allows users to earn compound interest on their crypto holdings.
- **(1) Responsibility:** Serve as a core developer, responsible for architecture design, code implementation of website and app frontend projects using modern technologies such as TypeScript, Node.js, and React, locating faults, and ensuring stable business operations.
- **(2) Modules:** The Meka app consists of the following modules: Vaults, Dashboard, DAO and Bridge.
- **(3) Vaults:** The vaults are automated yield farming strategies that allow users to deposit their cryptocurrency assets and earn passive income through various DeFi platforms. Meka also provides detailed information on each vault's performance, including historical yield rates and current ROI. This allows users to make informed investment decisions and track the progress of their investments.
- **(4) Dashboard:** The Meka dashboard displays information on the user's invested assets, earnings, and other relevant data in a user-friendly format.

- **(5) DAO:** The DAO provides a decentralized and community-driven governance model that ensures the platform's long-term sustainability and growth and fosters a sense of community ownership and accountability on the platform.
- **(6) Bridge:** The Meka Bridge provides a decentralized and user-friendly way for users to transfer their cryptocurrency assets between different blockchain networks. Its ease of use and security features make it a popular choice for users who want to move their assets in a seamless and efficient manner.
- **(7) Technologies:** TypeScript, Node.js, React, GraphQL, web3.js

• **Keb Tech**

Senior Software Engineer

Beijing, China

Jun. 2016 - Aug. 2020

- **FastCode:** FastCode is a production-proven continuous integration, continuous delivery, and deployment (CI/CD) automation software DevOps solution.
- **(1) Core Project:** Responsible for technical research, architecture design, and 70% code implementation. It is the core of the Apollo cloud computing platform and empowers business teams to transform cloud computing.
- **(2) New Features:** Responsible for researching and designing new features, such as log optimization, that improve the experience of business teams and customers.
- **(3) ARM Transplantation:** Responsible for ARM platform transplantation, addressed technical difficulties such as Jenkins and basic image migration, and helped the project complete the two-way certification.
- **(4) Technologies:** Go, Kubernetes, Docker, Jenkins, MySQL, Redis

• **Array Networks**

Software Engineer

Beijing, China

Feb. 2011 - May 2015

- **Array Cloud Delivery:** Array Cloud Delivery is the leading application delivery solution worldwide, providing high-performance and high-concurrency application delivery solutions such as Layer-4 and Layer-7 load balancing and a high-end Layer-7 strategy engine. The Layer-4 concurrent connection capability reaches over 10 million levels.
- **(1) Optimization:** Participated in the Layer-4 TCP/IP stack R&D and led the kernel message layer optimization; resolved the issue of queue events dropping; optimized event handling, increased packet throughput by 10%; and reduced packet loss by 3%.
- **(2) HTTP Engine:** Participated in the R&D of the HTTP cloud parsing engine and improved the load handling capacity and QPS with state machines and zero-copy packet parsing technology.
- **(3) Load Balancing:** Participated in the R&D of load-balancing strategies in Layer-4 and Layer-7 and improved the stability of advanced load-balancing strategies such as polling, least connections, shortest response, IP and port persistence, HTTP, etc.
- **(4) ACE Migration:** Developed the Cisco ACE device configuration file conversion application with compiler technology and contributed to the company's market share of Cisco cloud delivery.
- **(5) Features:** Designed and implemented a DNS domain name forwarding strategy, the Cache-Control function of HTTP, and the IPv6 upgrade of the firewall load-balancing module; improved the competitiveness of products; and obtained some important customer orders.
- **(6) Fixed serious bugs:** Located and fixed serious problems such as memory leaks, null pointers, wild pointer references, double frees, index out of bounds, etc. in services such as Layer-4 engines and HTTP cloud parsing, saving millions of dollars in orders.
- **(7) Technologies:** C, Perl, FreeBSD, TCP/IP, HTTP, Load balancing

EDUCATION

• **Jilin University**

Bachelor of Computer Science and Technology

Changchun, China

Sept. 2007 - July. 2011