Edison Xu

US Citizen | Atlanta | 626-552-1696

edisonapply@gmail.com | www.edisonwhale.com | linkedin.com/in/Edisonwhale | github.com/edisonwhale

EDUCATION

Georgia Institute of Technology

Master of Science in Computational Science & Engineering University of California - Santa Barbara Bachelor of Art, Applied Economics

SKILLS

Language	Java, Python, Go, JavaScript, Typescript, C, HTML, CSS, R, SQL, Shell
Frameworks	React.js, Vue.js, Spring Boot, Django, Flask, Node.js, Express.js, TensorFlow, Selenium
Database/Big Data	MySQL, PostgreSQL, MongoDB, Redis, PySpark, DynamoDB, Firebase
Developer Tools	Docker, Kubernetes, Jenkins, Jira, Git, AWS, GCP, Postman, Nginx, Linux

PROJECTS

Distributed Microservices in Golang

- Created a suite of microservices with **Golang**, including authentication, logging, listening, and email service.
- Integrated gRPC for efficient communications and leveraged RabbitMQ for reliable asynchronous messaging.
- Architected a **PostgreSQL** database implementing role-based access control, enhancing security.
- Boosted microservices scalability and reliability by orchestrating and deploying containers with Docker Swarm.

AI Recognition in Edge Computing & Cloud Native

- Optimized edge computing AI recognition using **KubeEdge**, streamlining local computations and decision-making.
- Attained 98.6% accuracy in vegetable recognition using a Convolutional Neural Networks model in **TensorFlow**.
- Built a centralized management system using **Django** with **MQTT**, enhancing live oversight in multiple edge modules.
- Fostered system resilience and prompt updates by integrating a Kubernetes orchestrated CI/CD pipeline.

CloudBin: Cloud-Base Distributed File Storage System

Demo: www.cloudbinpro.com

- Designed a cloud-based storage system with Spring Boot and Vue3, delivering seamless and resumable file transfers.
- Enhanced high concurrency using **Caffeine** and **Redis**, deploying Redis Bloom filters to prevent cache penetration.
- Implemented 'Zero-Copy' technology, integrating FastDFS and OSS, to enhance storage efficiency and data access.
- Optimized data consistency across multiple instances using distributed lock with **Redis** and **ZooKeeper**.

InovicePro: MERN Stack Invoice Management System

Demo: www.invoicepro.me

- Developed a comprehensive invoice management system with MongoDB, Express, React, and Node.js
- Streamlined invoice creation, user management, and live revenue analytics via a dynamic RESTful API.
- Fortified user authentication via a refresh token approach, Google OAuth, and stringent email validation mechanisms.
- Enhanced system performance under high traffic by integrating NGINX for load balancing and reverse proxying.

EXPERIENCE

ChineseInvestors.com Inc.

Data Analyst

- Launched a pivotal market cycle model in an agile environment, simplifying complex stock trends into actionable insights through price strength, direction, and momentum elements, markedly improving investment strategies.
- Optimized and deployed a **PySpark** based pipeline, processing more than 10 million stock records, enhancing cross-market analytics and unveiling critical trading insights.
- Produced and delivered daily market summaries and analysis videos to a subscriber base of 43,000, providing valuable information and insights to support investment decisions. Subscriptions increased by 23% during the period.

us messaging.

Aug 2023 - Oct 2023

May 2023 - Jun 2023

Jan 2023 - Mar 2023

Sep 2022 - Nov 2022

July 2018 - Dec 2018

San Gabriel, CA

Aug 2022 - Dec 2024 (Expected)

Oct 2019 - Mar 2021