

CHEN SU

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EDUCATION

B.Eng. in Computer Science and Technology

June 2017

SKILLS

- Strong knowledge of C, Golang, Javascript/Typescript, and C# software development.
- Design and implement scalable, highly available services with Docker and Kubernetes.
- Knowledge of database schema design, and SQL, experience in MySQL, MongoDB, and ElasticSearch.
- Proficient in UNIX/Linux environment, and shell scripting.
- Familiar with AWS and AliCloud services.
- Excellent git version management skills.
- Knowledge of Web development with HTML5, Node.js, and React.
- Ability to find out security and reliability issues.
- Strong Chinese communication skills, and able to working with international teams.
- Contributed to open source projects: thinkjs, upterm, etc.

PROJECTS

FatCoupon Node.js, Golang, MongoDB, AWS

fatcoupon.com

- Develop a Node.js monolithic service, Golang micro-services, and AWS Lambda serverless functions.
- Support over 10 million requests per day (over 100 requests per second) by 9 docker instances (3x 2c4g EC2 instance, with 20% CPU baseline).
- Store data in MySQL and MongoDB to improve performance, and cache data by Redis.
- Collect and analysis data from various sources.
- Provide fuzzing text search by ElasticSearch.

FTC Short Link Golang, MySQL, AWS

ftc.cash

- Allocate unique id for every unique link by MySQL, and filter duplicate link by hashing functions.
- Linear transformation a link id to pseudorandom number by linear congruential generator algorithm (LCG), and encode it by Base62 algorithm.
- Deploy service to AWS Lambda to provide high availability and global acceleration.

DVM ShellScript

github.com/ghosind/dvm

- Create an NVM-like Deno version manager project with Shellsript.
- Design, develop, and maintain the open source project as the core developer and maintainer.
- Create test cases and GitHub Actions automation testing flow.
- The project has been recommended by Gitee official team.

EXPERIENCE

Backend Engineer

May 2019 - Present

FatCoupon

- Develop backend service to provide Restful API for web and mobile applications.

- Design and develop micro-service architecture, and supporting inter-services communication by HTTP, gRPC, and MQ.
- Design database schema (including MySQL and MongoDB), and optimize query performance.
- Design scalable services with Docker, Kubernetes, and AWS Lambda.
- Create Shellscript and Makefile scripts to automate the development and deployment processes.
- Modify CDN pipeline to provide custom resizing and caching third-party resources.
- AWS services and Linux OS management.
- Create documentation with Swagger and markdown files.

Backend Engineer

Aug 2018 - Feb 2019

Timepop

- Develop a Node.js service to provide GraphQL API for mobile applications.
- Implement recommendation system by FtF algorithm.
- Develop instant chatting system based on Websocket.
- Assist frontend team with developing mobile application with React Native framework.

Backend Engineer

Apr 2018 - Aug 2018

Dianda

- Lead 5 engineer teams to develop B2B products, including both Node.js services and web pages.
- Participate in the product prototype design with PM and sales department.
- Refactor and optimize the existing code, migrate Node.js 0.10 projects to Node.js 8.
- Mentor junior engineers and interns.
- Review code and fix bugs.

Development Engineer

May 2017 - Nov 2017

Pinming Software

- Develop building information management software based on C#/C++ and Revit SDK.
- Develop Windows desktop software by WPF framework.
- Recognize and convert CAD file to 3D models.
- Import and export data from 3D models to SQLite database.