Peijun Ma

peijun.ma@pm.me | (902)-719-8619 | https://www.linkedin.com/in/peijun-ma/ | https://peijun.dev

Skills

Technology

Expert

I am able to onboard new team members with these technologies: Scala, Python, Docker, Terraform, Google Cloud Platform, Linux

Proficient

I am able to be immediately productive with these technologies: Kubernetes, TypeScript, Angular, Java, Jenkins

Familiar

I am able to pick up these technologies relativity quickly: Haskell, Rust, Vus.js, C#, AWS, C

Other

- · Architecting software systems using domain-driven and service oriented principles
- Developing continuous deployment workflows to Kubernetes in a production environment
- Administrating Unix-like operating systems, have knowledge of the OSI network model
- · Writing technical documentation and producing infrastructure diagrams
- · Solid understanding of data structures and algorithms
- Knowledgeable in agile (XP, Kanban, and Scrum)

Experience

Garner Distributed Workflow

Software engineer | November 2018 - Present

- Practiced GitOps for continuous deployment using ArgoCD
- Introduced functional programming, planned weekly study sessions to onboard team members
- Migrated production environment from systemd services on manually managed VMs to Kubernetes
- Developed infrastructure as code project from scratch using Terraform
- Optimized DB result parsing to be 2000x faster by reducing the runtime complexity from $\mathcal{O}(n^3)$ to $\mathcal{O}(n\log n)$

Projects

Personal website

Open Source project

https://gitlab.otonokizaka.moe/Umi/peijun.dev

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- Built a personal website using Vue.js
- Published the website as a **Docker** image using GitLab CI
- Deployed the website automatically using GitLab CI

Cloudflare DDNS

Open Source project

https://github.com/MaT1g3R/cloudflare-ddns

Purposed Cloudflare's DNS service as dynamic DNS using Terraform

Office hour scheduler

Open Source project

https://github.com/office-hour-scheduler/ohs

- Collaborated with several other developers to build a webapp for scheduling office hours with professors
- Designed the backend using domain-driven design principles
- Implemented the backend API using GraphQL
- Built the artifact as a Docker image in CI

Option (Python Library)

Open Source project

https://github.com/MaT1g3R/option

- Implemented a library to bring Rust-like Optional types to Python
- Integrated automated testing and deployment using Travis CI and codecov
- · Published the library automatically to PyPi using the CI pipeline

Chat bot Open Source project

https://github.com/MaT1g3R/YasenBaka

- Created a chat bot serving 1000+ chat rooms at its peak
- Explored asynchronous programming using the asyncio library
- Deployed the application using Docker to AWS

Music player

Open Source project

https://github.com/MaT1g3R/musicview

- Designed a music player that discovers the least played songs for the user
- Created a simple UI using nourses
- · Synchronized between different threads using locks and condition variables

ext2 file system

Course project, University of Toronto

- Implemented a ext2 file system from scratch using C
- Debugged the program using GDB, valgrind, and CLion
- · Experimented with the CMake build system

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Education

University of Toronto

September 2016 - April 2021

Bachelor of Science, Computer Science Specialist