# 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, Vue.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**

#### **CircleCI**

Software Engineer | June 2021 - Present

#### **Garner Distributed Workflow**

Software Engineer | November 2018 - April 2021

- Improved software delivery speed and consistency by implementing the GitOps process using ArgoCD
- Increased horizontal scalability of the production system by 30% by migrating the system to **Kubernetes**
- Granted the ability to improve the production infrastructure to the dev team by developing infrastructure as code project using **Terraform**
- Optimized the performance of graph DB queries by 2000x by reducing the runtime complexity of result parsing from  $\mathcal{O}(n^3)$  to  $\mathcal{O}(n\log n)$
- Improved the maintainability of the codebase by championing functional programming with weekly study sessions
- Reduced CI costs by 60% by migrating from Jenkins to Google Cloud Build

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# **Projects**

#### Personal website

Open Source project

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

- 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

 $\verb|https://github.com/MaT1g3R/cloudflare-ddns||$ 

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

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

**Chat bot** 

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

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# 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

# **Education**

# **University of Toronto**

September 2016 - April 2021

Bachelor of Science, Computer Science Specialist