Peijun Ma

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Education University of Toronto

Bachelor of Science, Computer Science Specialist

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, JavaScript, Angular, Java, Jenkins

Familiar: I am able to pick up these technologies relativity quickly:

• Haskell, 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
- Making decisions to direct team members in the right direction
- 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)

Employment

Garner November 2018 - Present

Software Developer

- Practiced GitOps for continuous deployment using ArgoCD
- Evangelized **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

Open Source Project Personal Website

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

Open Source Project Cloudflare DDNS

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

• Purposed Cloudflare's DNS service as dynamic DNS using Terraform

Open Source Project Office hour scheduler

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

Open Source Project Python Library

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 chat bot

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

Open Source Project Music Player

https://github.com/MaT1g3R/musicview

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

Course Project ext2 file system, 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