Peijun Ma

Email: peijun.ma@pm.me
Phone: (xxx)-xxx-xxxx
Website: https://peijun.dev

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)

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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 ncurses
- 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