

# Peijun Ma

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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 relatively 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

- Developed infrastructure as code project from scratch using **Terraform**
- Migrated production environment from systemd services on manually managed VMs to **Kubernetes**
- Evangelized **functional programming**, planned weekly study sessions to onboard team members
- 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