

Peijun Ma

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Experience **Software Engineer at Garner** 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 $\mathcal{O}(n \log n)$

Skills **Proficient:** Scala, Python, Docker, Terraform, Google Cloud Platform, Linux, Kubernetes, TypeScript, JavaScript, Angular, Java, Jenkins
Familiar: Haskell, Rust, Vue.js, C#, AWS, C

Projects **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**

Education **University of Toronto** September 2016 - Present
Bachelor of Science, **Computer Science Specialist**