

Peijun Ma

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Experience

Garner Distributed Workflow

November 2018 – Present

Software engineer

- Adopted **GitOps** for continuous deployment using **ArgoCD**, resulting in faster and more consistent software delivery
- Championed **functional programming** with weekly study sessions, making the code-base more maintainable
- Migrated production environment from systemd services on manually managed VMs to **Kubernetes**, decreasing the runtime overhead of the system by 30%
- Developed infrastructure as code project using **Terraform**, ensuring consistency across all environments
- Optimized graph DB result parsing by reducing the runtime complexity from $\mathcal{O}(n^3)$ to $\mathcal{O}(n \log n)$, resulting in a 2000x performance increase

Skills

Proficient: Scala, Python, Docker, Terraform, Google Cloud Platform, Linux, Kubernetes, TypeScript, Angular, Java, Jenkins

Familiar: Haskell, Rust, Vus.js, C#, AWS, C

Projects

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

Chat bot

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**

Education

University of Toronto

September 2016 – April 2021

Bachelor of Science, **Computer Science Specialist**