

# Peijun Ma

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## Experience

### Garner Distributed Workflow

November 2018 – Present

Software engineer

- Improved software delivery speed and consistency by implementing the **GitOps** process using **ArgoCD**
- Increased horizontal scalability of the production system by 30% by migrating the system to **Kubernetes**
- Granted the ability to improve the production infrastructure to the dev team by developing infrastructure as code project using **Terraform**
- Optimized the performance of graph DB queries by 2000x by reducing the runtime complexity of result parsing from  $\mathcal{O}(n^3)$  to  $\mathcal{O}(n \log n)$
- Improved the maintainability of the codebase by championing **functional programming** with weekly study sessions

## 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**