

Michael Fatigati

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Profile

I'm a full-stack software engineer and co-creator of Sentinel, an open-source, self-hosted platform as a service (PaaS). I have multiple years of experience in the JavaScript/Node.js and Go ecosystems, and I'm comfortable working with, AWS infrastructure, Docker swarm mode, PostgreSQL, Prometheus, and more. I also have a PhD in Classical Arabic philosophy, and my passion for mastering languages has found a happy home in software.

Professional Experience

Software Engineer & Co-Creator, Sentinel (open-source PaaS) 2022 – present
<<https://sentinel-paas.github.io/>> [🔗](#)

Allows users to easily deploy multiple database-backed web applications, with built in support for upgrading applications via canary deployments.

- Automated provisioning and configuration of cloud infrastructure using *Terraform* and *Ansible*.
- Implemented a multi-tenant architecture by using *Docker* containers and *Docker in Swarm Mode* for container orchestration.
- Used *Traefik* reverse proxy to implement traffic splitting and sticky sessions for canary deployments.
- Configured monitoring tools (*Prometheus*, *Grafana* and *Node Exporter*) to determine health of canary deployments.
- Contributed to command line interface for user interactions using *OCLIF*.
- Authored technical case study about Sentinel.

Full-Stack Web Developer, Self-Employed 2019 – 2021
A few of the projects & technologies used during this time:

- Reference Manager: organize references for research papers and generate bibliographies (Go's net/http and html/template libraries, PostgreSQL)
- Hookie: a tool to develop, receive & debug webhooks (TypeScript, Pug, PostgreSQL, MongoDB)
- Mellow: Trello-like collaboration app (Express, React/Redux, MongoDB)

SSHRC Postdoctoral Research Fellow, NYU Abu Dhabi 2021 – 2022
Translation and analysis of Classical Arabic sources

Instructor, Department of Philosophy, University of Toronto 2015 – 2021
Arabic/Islamic thought, Ancient philosophy, Ethics, Literature and Philosophy

Skills

- **Languages:** JavaScript/Node.js, Go, TypeScript, SQL, HTML/CSS
- **Frameworks & Libraries:** Express, React/Redux, jQuery, Handlebars, Pug, Jest
- **Cloud:** AWS (EC2, IAM); Digital Ocean, Heroku
- **Misc. Technologies:** Docker (swarm mode), Ansible, Terraform, Prometheus, Grafana, Traefik, Github, RESTful API, OCLIF, PostgreSQL, MongoDB

Education

Software Engineering, Launch School 2019 – 2021
Multi-year, mastery-based software engineering curriculum, with progression gated by written exams and living coding interviews. [Read more here.](#) [🔗](#)

PhD, Classical Arabic/Islamic Philosophy, University of Toronto 2021

MA, Greek and Latin Philosophy, Villanova University 2013