

# 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

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| <b>Software Engineer &amp; Co-Creator, <i>Sentinel</i> (open-source PaaS)</b><br>< <a href="https://sentinel-paas.github.io/">https://sentinel-paas.github.io/</a> > <a href="#">🔗</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2022 – present |
| Allows users to easily deploy multiple database-backed web applications, with built in support for upgrading applications via canary deployments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |
| <ul style="list-style-type: none"><li>• Automated provisioning and configuration of cloud infrastructure using <i>Terraform</i> and <i>Ansible</i>.</li><li>• Implemented multi-tenant architecture by using <i>Docker</i> containers and Docker in <i>Swarm Mode</i> for container orchestration.</li><li>• Engineered traffic splitting and sticky sessions for canary deployments using <i>Traefik</i> reverse proxy.</li><li>• Configured monitoring tools (<i>Prometheus</i>, <i>Grafana</i> and <i>Node Exporter</i>) to determine health of canary deployments.</li><li>• Developed command line interface for user interactions using <i>OCLIF/TypeScript</i>.</li><li>• Authored technical case study about Sentinel.</li><li>• Collaborated with a distributed team across several time-zones, using Github issues and Slack in our workflow.</li></ul> |                |
| <b>Full-Stack Web Developer, <i>Self-Employed</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2019 – 2021    |
| <ul style="list-style-type: none"><li>• Reference Manager: organize references, generate bibliographies (Go's net/http and html/template libraries, PostgreSQL)</li><li>• Hookie: receive &amp; debug webhooks (TypeScript, Pug, PostgreSQL, MongoDB)</li><li>• Mellow: Trello-like collaboration app (Express, React/Redux, MongoDB)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |
| <b>SSHRC Postdoctoral Research Fellow, <i>NYU Abu Dhabi</i></b><br>Translation and analysis of Classical Arabic sources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2021 – 2022    |
| <b>Instructor, <i>Department of Philosophy, University of Toronto</i></b><br>Arabic/Islamic thought, Ancient philosophy, Ethics, Literature and Philosophy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2015 – 2021    |

## Skills

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

## Education

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| <b>Software Engineering, <i>Launch School</i></b><br><ul style="list-style-type: none"><li>• Multi-year, mastery-based software engineering curriculum, with progression gated by written exams and living coding interviews. For more information: &lt;<a href="https://launchschool.com/employers/">https://launchschool.com/employers/</a>&gt; <a href="#">🔗</a></li></ul> | 2019 – 2021 |
| <b>PhD, Classical Arabic/Islamic Philosophy, <i>University of Toronto</i></b>                                                                                                                                                                                                                                                                                                 | 2021        |
| <b>MA, Greek and Latin Philosophy, <i>Villanova University</i></b>                                                                                                                                                                                                                                                                                                            | 2013        |