

oliviamackintosh

software engineer

about

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special interests

- static type systems
- functional prog
- TDD
- refactoring

languages

Python
Haskell
JS/TypeScript
Kotlin
+ mark-up languages

projects

[Matrix SDK](#)
[matrix] chat protocol
SDK written in Haskell

active open source contributions

[K9 Mail](#)

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profile

Hi. I'm Olivia, a software engineer writing quality software that meets today's needs, whilst being maintainable in the future. I follow a "less-is-more" philosophy which means putting agile principles into practice but without dogma. Often, too much planning ends up to be more of a curse than a benefit.

Achieving correct software is also an aspiration: bug free code without any unnecessary extras. Utilizing static type systems along with a test-driven approach has proven it's worth in the development of robust but inherently complex services and I enjoy utilizing these and similar strategies when suitable.

I love music, nature and philosophy as well as good company.

experience

Nov'17→Now **Co-op - Senior Software Engineer** Python, JS, SQL, Azure, AWS, Elasticsearch, GitLab, Django, React/Redux, TDD, Tooling

- *Worked on award winning projects: Funeralcare Guardian and Shifts*
- *Multi-disciplinary agile teams (working with Design/QA/Product)*
- *DevSecOps culture at all stages of development*
- *Complex REST/SOAP integrations and design (with DRF/Flask/Node)*
- *Designing and maintaining high throughput/reliability services*
- *Acted as security champion within the team: participating in CTFs*
- *Involvement in recruitment*
- *Mentored junior devs*
- *Gave tech talks*
- *The XP Surgery: eXtreme Programming course run by Kevin Rutherford*
- *Upfront: public speaking course run by Lauren Currie*

Oct'16→Jun'17 **Beautiful Destinations** Python, Postgres, RabbitMQ, Docker, Linux, Selenium, DevOps

- *Ported medium sized Python project (neural network REST service) to use AMQP with Celery task queue*
- *Developed headless Selenium QA testing on the front-end. Runs inside Docker container - recording with ffmpeg. Mostly Python.*
- *JenkinsCI with Selenium unit tests*
- *Custom Docker image creation (e.g. RabbitMQ)*
- *Declarative specification of which Docker containers should run where*
- *Automated PostgreSQL backups*
- *Creating Docker environments*

Jun→Sep '16 **Liberal Democrats** Microservice, Linux, AWS, REST, Scala, Systems Integration

- *Deployment of a micro-service media library written in Scala*
- *Polling station finder - UK-EU referendum*

