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Lachlan Kermode

Backend engineer

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Engineering with a focus on the design and operation of machine learning in production. In my graduate work I focused on distributed systems, (vector) databases, and datacenter operating systems. I also have deep interest in both modern philosophy and the history of computer science: reading and [writing](#) about this interest is the focus of my PhD in Modern Culture and Media. See [my website](#) for more examples of my writing and open source work.

SKILLS

Languages	Rust (3 years), Python (5+ years), Node/JS (5+ years), Java, C/C++
Platforms	Linux (5+ years), AWS, GCP, Terraform, Apache Flink, Kubernetes, PyTorch, React, VueJS
Communication	English (mothertongue), Italian (fluent), Latin (some).
Other	Blender, Maya, Unity, Figma, After Effects

TECHNICAL EXPERIENCE

Senior Software Engineer **Feb 2021 — Sep 2021**
Halter *Auckland, New Zealand*

- Specialising as a machine learning engineer, architected and built a feature store to compute real-time uplinks from IoT devices using Kinesis streams and Apache Flink on AWS.
- Contributed to microservices in Java, Node and Python (SNS/SQS, DynamoDB, and PostgreSQL)
- Built, configured and monitored cloud infrastructure with Terraform, Concourse CI, Grafana, and AWS.

Advanced Researcher / Software Lead **Jul 2018 — Jan 2021**
Forensic Architecture *London, UK*

- Full stack engineering in React, Vue, Python and Golang for various full stack platforms.
- Developed machine learning workflow to train computer vision classifiers on synthetic data generated in Unity, and then to deploy on public domain media from Youtube and Twitter.
- Written and maintained devops CI/CD infrastructure in Ansible and Terraform for several live platforms.
- First author of [paper at NeurIPS 2019](#) on the use of synthetic data in computer vision, as well as co-author of [follow-up paper at WACV 2022](#).

CTO and co-founder **Aug 2016 — Mar 2017**
DirectDrinks *Wellington, New Zealand*

- Bootstrapped an end-to-end stack across web, mobile and tablet for a startup that provides a direct sales channels between large corporate suppliers and small resellers in the FMCG industry, disrupting a pipeline that is currently dominated by mid-tier redistributors.

Full stack and mobile freelancing **Jun 2016 — present**
various

- Designed and developed MLOPs workflow in GCP for deploying inference capability at [SMAT](#).
- Co-designed and developed website at [The Syllabus](#).
- Developed Python libraries to simplify data engineering workflows from Jupyter at [Merantix Labs](#).
- Developed an Objective C SDK for an OAuth2 verification flow and prototyped two React Native applications for [Inflection](#).

EDUCATION

Masters in Computer Science, *Brown University* 2024
PhD in Modern Culture and Media, *Brown University* exp. 2026
A.B. in Computer Science, *Princeton University* 2013 — 2018

PAPERS/OTHER

- [Detecting Tear Gas Canisters With Limited Training Data](#). Ashwin D'Cruz, Christopher Tegho, Sean Greaves, **Lachlan Kermode**. (WACV 2022.)
- [Objects of violence: synthetic data for practical ML in human rights investigations](#). **Lachlan Kermode**, Jan Freyberg, Alican Akturk, Robert Trafford, Denis Kochetkov, Rafael Pardinas, Eyal Weizman, Julien Cornebise. (NeurIPS 2019.)

I coordinate and run a reading group on technology and society called [A.R.G.](#) 2019 — present
I have several years experience giving workshops and teaching, more details in my [academic CV](#). 2019 — present
I have contributed to exhibitions at Whitney (NY), De Young Museum (SF), Tate Britain (London), and [others](#). 2018 — present
I have acted and written music for various musical and theatre projects, more details available in my [portfolio](#). 2013 — present