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Lachlan Kermode
Cloud engineer

Portfolio: MathtoData.com
github.com/breezykermo
linkedin.com/in/lachlankermode

Originally from New Zealand, my current work is in the domain of cloud engineering with a focus on building streaming systems that process real-time data. I have previously worked as a machine learning research engineer, a full stack developer, and a mobile developer. I run with first-class support for Arch linux, though I have worked at length also with MacOS. In my spare time, I swim, sing and tinker with hardware. See my website for some of my hobby writing and open source/academic work, and my portfolio for my musical and artistic experience.

Skills

Languages	Node/JS, Rust, Python, Java, C/C++
Platforms	AWS, Docker, GCP, Flink, Kubernetes, PyTorch, React, VueJS
3D and Design	Blender, Maya, Unity, Figma, After Effects, Premiere Pro
Communication	English, Italian (fluent), Latin (some).

Technical Experience

Senior Software Engineer   Feb 2022 — Sep 2022
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
company B   *somewhere, state*

- 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*	exp. 2023
PhD in Modern Culture and Media, *Brown University*	exp. 2026
A.B. in Computer Science, *Princeton University*	2013 — 2018

Activities

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
Exhibitions at Whitney (NY), De Young Museum (SF), Tate Britain (London), and others.	2018 — present
I have been involved in various musical and theatre projects, more details available in my portfolio.	2013 — present
1st place at Burda Hackday Munich	2016
HackZurich, Dropbox API Prize and Top 25	2015