Josh Atwal

Data Scientist, Software Engineer

With a Master's degree and hands-on experience from an early-stage SaaS startup, I've cultivated a talent for quickly navigating unfamiliar landscapes. This adaptability means I can hit the ground running and tackle any challenge I am given.

For example, my last role had me involved in: backend engineering and architecture, machine learning/data science, cloud infrastructure, database administration, LLM prompt engineering, digital content marketing, web scraping, and more.

In my spare time I frantically keep up with the latest in AI and consume many books/podcasts on technology, philosophy, and psychology. I also love hiking, play the drums, and am addicted to bouldering. Recently, I have been generating AI art and writing about it as a creative outlet.

josh-atwal.com

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PERSONAL PROJECTS

I've worked on numerous personal projects in my spare time that can be found on my website josh-atwal.com.

Topics include: text and image generative AI, facial emotion analysis, social media engagement, and more.

FOUNDING ENGINEER

Y CoffeeAI | 2021–2023

- Founding team (pre-seed) of a SaaS startup.
- Followed the company through the Y-Combinator accelerator program and multiple product pivots.
- Predominantly worked as a backend Python developer but other roles/responsibilities included data scientist, architect, prompt engineer, devops, cloud infrastructure, DB admin, and content marketer.
- Relied upon to independently solve difficult engineering problems. Worked as part of a development team and managed interns.
- More details on the CV section of my website.

MASTERS PROJECT

Luma Analytics | 2021

- Using data to improve the analytics and insights available for amateur golfers, and uncover trends in the sport at large.
- Involved PCA, clustering, data visualisation, web scraping.
- Self-directed research with low-touch supervision.

COMPUTER VISION INTERN

Beca | 2020–21

- An end-to-end computer vision solution encompassing data labelling, model training, and prediction validation.
- Researched contemporary computer vision models before implementing Faster-RCNN and YOLOv5 in PyTorch, tuning them to the dataset, and comparing their performance.
- Acted as Product Owner and team leader, self-directing the project with minimal supervision.

Education

Masters in Data Science

- University of Auckland 2020–2021
- First Class Honours

Bachelor of Engineering / Bachelor of Science (conjoint)

- University of Auckland 2015–2019
- First Class Honours
- Final semester spent on exchange in Germany at the University of Freiburg

Technical Skills

- Data Science, Machine Learning, Statistics
- Generative AI, LLM prompt engineering
- Python, R, Flask, Pandas
- SQL and database administration
- Elasticsearch
- Kubernetes, Cloud infrastructure (GCP), Github Actions

References

Available upon request.