

MACK DELANY

Citizen of New Zealand and Ireland
mackdelany@gmail.com | mackdelany.com
DOB 15 September, 1993

Engineer and leader with an entrepreneurial spirit, unique product intuition and a relentless user focus

Strengths

First principles; I break problems into their simplest components and focus on what matters, projects led by me are meticulously metric driven

Empathy; I get on with and understand people well. I can be convincing when I need to be (ask any New Zealand hospital), can align a group around a goal (ask my ex-colleagues at CarbonCrop) and have a knack for understanding what customers need (ask my ex-colleagues at Mish Guru)

Smarts; I pick things up quickly... in April 2019 I decided to pick up machine learning, in April 2020 my natural language processing powered product was used in two hospitals to support 1000 emergency patients every week

Experience

SENIOR SOFTWARE ENGINEER | [Vital](#) | New Zealand / USA | 2021 - present

Vital delivers beautiful, user-friendly applications for patients and clinicians in both emergency and inpatient settings

- Using AWS, NodeJS, TypeScript, SQL, Bash, reasonably typical full stack web
- Lead team delivering company wide feature flag service and improvements to Vital configuration engine among other projects

MACHINE LEARNING ENGINEER | [NAI](#) / [CarbonCrop](#) | New Zealand | 2019 - 2021

NAI is an applied venture studio, CarbonCrop is a seed stage startup that democratizes access to carbon credit markets

- Senior among 6 engineers building infrastructure from ground up, including react applications, backend services, databases, distributed ML services and queues, tileservers, data pipelines, AWS infra, CI/CD services etc.
- Responsible for infra decisions, application and system design, hiring and mentorship, etc. and of course, programming!
- Built [AR microscope](#) to taxonomise microalgae in real time for scientists in the NZ aquaculture industry

FOUNDER | [STAN](#) | New Zealand | 2019 - 2021

STAN was a Supportive Triage Assistant which used machine learning to help emergency departments triage patients

- Deployed cloud based application which supported >50K emergency presentations at multiple hospitals with 99.9% uptime
- Applied state of the art natural language processing technologies to medical notes and physiological observations
- Convinced public health officials that a 25 year old's triage assistant would help save lives (not easy!)
- [STAN ultimately improved triage consistency, clinical pathway uptake and high risk symptom recognition](#)

GROWTH | [Mish Guru](#) | New York | 2016 - 2019

Mish Guru provides vertical video software for McDonalds, Coca Cola, Princeton and hundreds of other global brands

- Managed product launches on three continents across >10 international markets with >150 customers; conducted marketing campaigns, did user testing, ran customer feedback and insight, used python, sql and javascript to automate internal processes
- Supported CEO in raising USD \$6m of venture capital, modeled company growth, attended pitches, liaised with investors

Education

BACHELOR OF ENGINEERING WITH HONORS (CIVIL) | University of Canterbury | 2012 - 2015

Honors GPA of 3.63 (4.0 Scale), specialized in fluid dynamics and hydrology

CFA INSTITUTE | Level 1 | 2016

Personal

- Love fresh air, reading, swimming, skiing, mountain biking, hiking, learning, basketball, and more
- Eligible to work in Canada, NZ, AU, Europe, the UK and the US if sponsored (have H-1B visa)