Matthew Molloy

Software engineer and data analyst with ten years experience in a range of industries and startups. Since 2017 I have worked remotely for Hong Kong companies from Southeast Asia.

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EXPERIENCE

Korum Legal, Hong Kong — *Full Stack Developer*

MARCH 2018 - PRESENT

I have built Axceller, an in house legal consultant management platform. The backend is in Mongo / Clojure and the frontend Typescript / React. The project is now in maintenance mode.

Energybox, Hong Kong — *Senior Software Engineer*

FEBRUARY 2018 - APRIL 2019

I developed Energybox's IoT microservice architecture. I tested the authentication / authorization microservice and rewrote the 'Food Genius App' backend. Technologies used include Typescript, Clojure, Java Spring, Mongo, Mysql, Terraform.

Exicon, Hong Kong — *Software Engineer*

SEPTEMBER 2017 - JANUARY 2019

I developed artificial intelligence and data visualization capabilities for Exicon's app management board. This was a brief contract as the company folded up and the team joined Energybox. Technologies included Clojure and Datomic DB.

University Insider, Hong Kong — *Technical Cofounder*

JANUARY 2017 - OCTOBER 2017

University Insider provides a platform for prospective international students and their parents to interview current students. The backend was written in Clojure and the frontend used a custom Javascript compiler (Mattyscript).

Taipan Health, Hong Kong — *Web Developer*

AUGUST 2016 - DECEMBER 2016

I built a teleradiology portal that enables customers to upload scans for review by European doctors. The website was built in four months with Grails / MySQL.

SKILLS

Frontend: Typescript, React, Responsive CSS, HTML5

Backend: Java Spring, Clojure, Node.js, MySQL, Mongo

Infrastructure: Terraform, AWS, Spark / Hadoop, Docker

Data Science: Maths background with solid understanding of statistics. Effective data communicator.

People Skills: Approachable, personable, understands local culture.

OPEN SOURCE PROJECTS

https://github.com/whamtet

CTMX – Backend for HTMX

Dogfort – Functional backend framework for Node.js

Mattyscript – Super Lightweight Lisp to Javascript compiler

Cljs–pdfkit – Declarative PDFs in the browser.

Anchor – Stock valuation suite based on PDF.js

Excel–REPL – Programmable Spreadsheets

Asia Miles, Hong Kong — *Data Science Engineer*

MARCH 2016 - AUGUST 2016

I joined a team acqui-hired from the data science company Kites. I managed data and ran queries on a Spark cluster to optimize pricing and marketing strategies.

Anchor, Hong Kong — *Software Engineer*

NOVEMBER 2015 - FEBRUARY 2016

I built a stock portfolio management suite based on PDF.js and pitched it to Hong Kong finance companies.

Admiral Investment, Hong Kong — *Software Engineer*

JUNE 2014 - NOVEMBER 2015

I built a stock portfolio management suite for a Hong Kong REIT fund similar to Anchor (above). The suite enabled original market research into REIT stocks in Asia Pacific.

Chunkmapper, Brisbane, Australia — *Founder*

JUNE 2013 - MAY 2014

I mapped the world's infrastructure and natural features in 3D at scale 30:1 using open source satellite and mapping data. Chunkmapper was sold as an add-on to Minecraft in an attempt to leverage off its popularity.

PUBLICATIONS

Davies, R. and M. Molloy (2012), Global cloud height fluctuations measured by MISR on Terra from 2000 to 2010, Geophys. Res. Lett., 39, L03701, doi:10.1029/2011GL050506.

This research attracted international media attention at the time of its publication.

EDUCATION

The University of Auckland, New Zealand — *BSc (Hons)*

2009

Specialization in Physics. Dissertation examined the effects of latitudinal calculations in radiative-convective climate modelling.

The University of Auckland, New Zealand — *BSc*

2006 - 2008

Majored in Physics and Mathematics

LANGUAGES

Vietnamese (fairly fluent),
Chinese (learning),
Thai (learning)