Andrew Chen

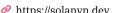Sydney, NSW +61488933930 andrew@solanyn.dev https://solanyn.dev

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in/solanyn

Summary

I'm a Machine Learning Engineer who loves building ML platforms, designing ML pipelines and tackling all sorts of technical challenges. I enjoy making machine learning smoother and building awesome systems. Contributor to the open-source Kubeflow project.

Experience

Ericsson   **Feb 2021 - Present**
Machine Learning Engineer   Sydney, New South Wales, Australia

- Designed an enterprise ML Platform on Google Cloud Vertex AI and Google Kubernetes Engine
- Lead a team of 3 to design MLOps pipelines using Vertex AI/kubeflow pipelines for standardising model development, evaluation and deployment
- Trained object detection models using PyTorch and TensorFlow to automate document and image identification
- Deployed LLM workflows for document and image processing
- Engaged in university engagement programs as technical owner including organising datathons and industry partner for university subjects
- Implemented CI/CD including testing and GitOps practices using FluxCD

Agtuary   **Jul 2020 - Feb 2021**
Data Scientist   Melbourne, Victoria, Australia

- Engineered end-to-end data processing pipelines for satellite imagery analysis at scale
- Developed noise reduction techniques for satellite image processing, improving data quality
- Designed and implemented ML models to predict agricultural yield from geospatial data
- Refactored processing functions into maintainable Python packages following software engineering best practices

Education

RMIT University   **2019 - 2020**
Data Science   Master of Data Science

- Graduated with Distinction (3.9/4.0)
- Relevant coursework: Machine Learning, Deep Learning, Cloud Computing, Data Structures & Algorithms
- Capstone Project: Built data pipelines and trained gradient boosting models for agricultural yield prediction using satellite imagery

RMIT University   **2013 - 2018**
Electronics and Electrical Engineering   Bachelor of Engineering

- Focus: Computer Engineering
- Capstone Project: Developed IoT GPS device with RFID for precision timing in sporting events using C# and Python

Projects

Kubeflow
Open source contributor
 https://github.com/kubeflow

home-ops
GitOps on bare-metal Kubernetes
 https://github.com/solanyn/home-ops

Volunteering

RMIT   **May 2021**
Career Mentor

Certifications

Machine Learning Engineering for Production (MLOps) Specialization   **Dec 2023**
DeepLearning.AI
 https://www.coursera.org/account/accomplishments/specialization/6846AV4L82TL

TensorFlow: Advanced Techniques Specialization   **Jan 2024**
DeepLearning.AI
 https://www.coursera.org/account/accomplishments/specialization/VUX9F9TGFFCT