Andrew Persic
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Frontend & backend web · Data-intensive workloads · Cloud infrastructure

ARENA 3.0 · Participant
Python, Pytorch, nnsight, TransformerLens

2024

- The [the ARENA 3.0 program](#) led by [Callum McDougall](#) offers a deep-dive into machine learning with a focus on mecahnistic interpretability
- Built convolutional networks, residual networks, optimizers, GANs, VAEs and transformers from scratch
- Interpreted open source models with tools such as function vectors, SAEs, [nnsight](#) and [TransformerLens](#)
- Applied various training techniques, including Q-learning, PPO and RLHF

Canva · Senior Software Engineer (Backend + Frontend)
TypeScript, React, Java, Terraform, AWS, GraphQL, Protobuf, PostgreSQL, DynamoDB

2022 - 2023

- Managed all pages on [canva.com](#) and [canva.cn](#). These 32,590 pages receive ~30 million requests per day.
- Identified shortfalls in our Chinese infrastructure, established communication between the Beijing and Landing Pages teams, and delivered experimentation and fallback mechanisms in the CN region.
- Worked on CMS and page rendering features, syncing millions of rows of data between DynamoDB and Postgres databases and creating UIs for content managers.
- Implemented URL management in Canva's CMS, replacing over 10,000 hardcoded URL strings, increasing TTM and decreasing load on engineers.

Two Bulls · Software Engineer (Backend + Frontend)
Vue.js, TypeScript, Node.js, C#, Python, AWS, MySQL, DynamoDB

2020 - 2022

- Delivered bespoke web applications including [KidsDoc](#) telehealth, [TheOneTwo](#) shopfront, [Victorian COVID border permits](#) (reached #3 on the app store!) and the [Release.Me](#) land sales platform.
- Responsible for project leadership as well as frontend & backend technical proficiency.
- Learned to work with clients ranging from startups in the inception phase, to state governments to find unique solutions

Unico · Software Engineer (Backend)
Java, MySQL, Python, MATRIXX, Linux, Docker, Spring

2019 - 2020

- Performed large scale database migrations (ETL) for prominent telecommunications vendors.
- Successfully migrated over 20 million records to the *MATRIXX* in-memory database in a single day.
- Gained experience in data-intensive systems and concurrency.

Monash Uni Immersive Analytics Dept · Software Engineer (Research)
JavaScript, Three.js, WebGL, Python, R

2017 - 2019

- Developed a highly performant web application for 2D and 3D visualisation of protein complexes and cross-link mass spectrometry data using *Three.js* and *WebGL*.

Inquire to learn more about

UAVs, speech synthesis, cluster computing

Monash University

Bachelor of Computer Science