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

ARENA 3.0 • Participant
2024

Python, NumPy, PyTorch, NNsight, TransformerLens

- 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)
2022 - 2023

TypeScript, React, Java, Terraform, AWS, GraphQL, Protobuf, PostgreSQL, DynamoDB

- Managed all pages on [canva.com](#) and [canva.cn](#). These 32,590 pages receive ~30 million requests per day
- Expanded infrastructure to the China region, established communication between the Beijing and Landing Pages teams, and delivered experimentation and fallback mechanisms in the China region
- Created web tools to manage our pages and synchronise millions of daily content changes
- Implemented an experimentation service for A/B testing page changes in real time across 2 regions

Two Bulls • Senior Software Engineer (Backend + Frontend)
2020 - 2022

Vue.js, TypeScript, Node.js, C#, Python, AWS, MySQL, DynamoDB

- 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)
2019 - 2020

Java, MySQL, Python, MATRIXX, Linux, Docker, Spring

- 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

Immersive Analytics • Software Engineer (Research)
2017 - 2019

JavaScript, Three.js, WebGL, Python, R

- 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*