Angus Trau

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Experience

Monash University
Junior High Performace Computing Consultant

monash.edu
Jul 2020 - Present

- Support researchers at Monash University's MASSIVE M3 and MonARCH supercomputing clusters.
- Install and optimised scientific applications for our high performance computing hardware.
- Utilise container technologies to create portable environments for scientific and HPC software.

MonSec (Monash Cybersecurity Club)
Vice President

monsec.io
Sep 2019 - Present

- Organise weekly workshops for our members.
- Perform outreach workshops introducing new students to the field of cybersecurity.
- Manage infrastructure and computing needs, including our internal capture the flag events.

Melbourne High School
Robotics Mentor

mhsrobotics.club
Feb 2019 - Present

- Work in a team to mentor over 200 students in 30+ teams over 4 year levels to compete annually in Robocup Junior Australia.
- Teach Python, Arduino, CAD, and 3D printing from beginner to advanced levels.
- Built custom student and tournament management software for Robocup Junior Australia based on Django and React.

Interdyn
Software Developer

interdyn.com.au
Dec 2018 - Jul 2020

- Developed an in-house eCommerce platform built on Vue and Django.
- Created and managed Shopify stores, apps, and integrations.
- Deployed projects to AWS and Heroku.
- Crestron programmer for residential and commercial smart automations.

Education

Monash University
Bachelor of Computer Science

Mar 2019 - Dec 2022

Skills

Programming Languages:	JavaScript, TypeScript, Python, Java, C#
Frameworks:	React, Vue, Django, NodeJS
DevOps:	Linux, Docker, AWS, Heroku

Projects

DownUnderCTF *Docker, Kubernetes, Terraform*　　　　　　　　　　downunderctf.com
Infrastructure engineer for Australia's largest cybersecurity Capture The Flag competition.
Collaborated with 13 universities and societies to bring 50+ unique challenges to 3000+ competitors.

Student Cluster Competition @ DeepNeuron *Linux, Ansible, Docker*　　　　deepneuron.org
Project lead for Monash's bid at Asia Supercomputing Community's Student Cluster Competition.
Built a supercomputing cluster and reached the final round of the world's largest supercomputing hackathon among 300+ teams.

Monash Human Power *React, Python, Arduino, MQTT*　　　　　monashhumanpower.org
Building software for a high speed recumbent bicycle. Created a real-time telemetry dashboard to visualise performance from IoT sensors.

CloudStream *Docker, AWS*　　　　　　　　　　github.com/angustrau/cloud-stream
An integrated platform for supporting event live-streaming with remote presenters. Utilises the cloud for rapid deployment, high performance, and minimal cost.