Angus Trau

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Experience

Monash University eResearch Centre
Junior High Performace Computing Consultant

monash.edu
Jul 2020 - Present

- Support researchers at Monash's MASSIVE M3 and MonARCH supercomputing clusters.
- Install and optimise challenging 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 talks and workshops for our members.
- Perform outreach programs introducing new students to the field of cybersecurity.
- Manage infrastructure and computing needs, including for 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, competing annually in Robocup Junior Australia.
- Teach Python, Arduino, CAD, and 3D printing from beginner to advanced levels.
- Created a simulation platform to support virtual competitions for RobocupJunior Australia.

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, Google Cloud, Heroku, Jenkins CI

Projects

ev3sim *Python, Robotics, Compiler* — ev3sim.mhsrobotics.club
A simulation and teaching platform for LEGO EV3 robots supporting both Python and block-based programming, integrating a custom EV3-to-Python compiler. To be the basis of RobocupJunior Australia's virtual soccer league.

adiona *React, TensorFlow, OpenCV, Arduino* — devpost.com/software/adiona
An all-in-one automated check-in system with ML-powered mask verification. Winner of 3rd Place and the Twilio Prize at the UniHack 2021 hackathon.

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

Student Cluster Competition *Linux, Ansible, Docker* — deepneuron.org
As project lead at Monash DeepNeuron, built a cluster to support workloads in quantum computing, astrophysics, and ML language analysis. Reached the final round of ASC21, the world's largest supercomputing hackathon, among 300+ teams.

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