

EMILY TRAU

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EXPERIENCE

Atlassian

Site Reliability Engineering Intern

atlassian.com

Nov 2021 - Feb 2022

- TBC

Monash University eResearch Centre

Junior High Performance 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.

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#, Haskell
Frameworks:	React, Vue, Django, NodeJS
DevOps:	Linux, Docker, AWS, Google Cloud, Heroku, Nix

PROJECTS

MonSec Cybersecurity

monsec.io

Committee member then Vice-president for Monash University's cybersecurity society between 2019 and 2021. Managed infrastructure and computing, including for our internal capture the flag events.

DownUnderCTF Cybersecurity, Docker, Google Cloud

downunderctf.com

Treasurer and DevOps engineer for Australia's largest cybersecurity Capture The Flag event. Founded as a collaboration between 12 universities and societies, this year we hosted 4000+ 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.

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. A base of RobocupJunior Australia's virtual soccer league.