HGV3 - GPU Workstation Panel

Industry Partner: Ben Sand
Location of Partner: Online/Remote
URL for Partner: NA
Contact Person:
       Name: Ben Sand
       Email: ben@bensand.com
       Phone:

General field/discipline: DevOps, Web Development, AI

Specific requirements/Skills:

This project is for students who want a serious industry experience. They will need to be self-motivated and goal focused, with a strong understanding of Python and Linux, and an interest in web development and big data processing.

Skills in Web Development (Full-Stack) using the latest industry standard tools such as MEAN stack (MongoDB, Express, Angular, NodeJS) or similar.

Project Outline:

AI research and development are the fastest and biggest growth areas in the technology field. We are building the next big AI data processing technologies locally in Australia.

This project is focused on DevOps, in which students will be developing an administration portal to manage remote GPU workstations that support advanced AI development. Students will be able to work with the latest GPU technologies and test large neural networks.

Students will be developing a dashboard for managing and maintaining the remote GPU workstations. This includes reporting on uptime, monitoring status, reporting problems as well as launching functions such as restarting workstations and scheduling shutdowns from the web interface. Students will also construct deep neural networks to test that the final system works reliably.

This project will be guided by a full-time project manager to maximise their potential.

Students will work alongside the industry partner and be able to gain valuable industry knowledge. For the strongest programmers, real job opportunities may be available. Clients have more than 10 years of Capstone Project experience working with Sydney University.

Teams: 2+

Resources:
N/A