

HAYDEN LE

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EDUCATION

University of Sydney

08 2021 – EG: 06 2025

Bachelor of Advanced Computing

Sydney, NSW

*Majoring in **Computer Science** and **Data Science***

PROJECTS

GOpti (AI-Powered Itinerary Planner for Vivid Festival)

Tech Stack: React, Flask, AWS, Jira

07 2024

- **Vivid Festival** is one of the best events in Sydney. As it spans multiple locations, visitors often struggle to know **where, which, and when** to attend efficiently. This challenge inspired me to develop an algorithm that generates a **personalized** schedule in real time, solving an **NP-Hard** problem.

Spotifeye (Eye-Tracking Hands-Free Music Control System)

Tech Stack: NumPy, SciPy, Matplotlib, Spotipy, PySerial

02 2024

- I explored the potential of human eye movements as an input mechanism. Spotifeye enables hands-free control of Spotify via eye blinks and movements, offering an innovative and accessible way to interact with music. I optimized communication methods to achieve a **latency of less than one second with over 80% accuracy**.

INTERNSHIP

DKS CO., LTD

11 2022 – 02 2023

Software Developer

Hanoi, Vietnam

- Passionate about blending education and technology, I contributed to 3D applications that help students practice mechanical and electrical exercises in a virtual reality environment. I **developed objects and animations in Unity 3D using C#** and **rigorously tested the applications** to ensure smooth performance.

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C, SQL, R
- **Databases:** PostgreSQL, SQLAlchemy, Spark SQL, pgAdmin
- **Cloud & DevOps:** AWS, Azure, Docker, Bitbucket, GitHub, Jenkins
- **ML/AI Tools:** PyTorch, TensorFlow, SciPy, Matplotlib
- **Web Development:** React, Flask, Spring Boot

ACHIEVEMENTS

Social Impact Award - USyd Coding Fest 2024 | GOpti

07 2024

- Awarded the **Social Impact** accolade at the **University of Sydney Coding Fest 2024** for developing **GOpti**, an AI-driven itinerary planner for Sydney's **Vivid Festival**. This project solved the NP-Hard challenge of optimizing travel plans across multiple venues in real time, ensuring an **efficient, personalized, and accessible** experience for all attendees.