Dear Sir or Madam,

I am writing to express my interest in the Graduate Engineer position at Industrus Engineering as advertised. As a recent Software Engineering graduate from the University of Technology Sydney (UTS), I have gained practical experience through the Software Innovation Studio subject where I served as team lead and front-end developer for an AI-powered travel recommendation application called Leisura. I believe this hands-on experience has prepared me well to contribute effectively to your graduate program.

A commitment to ethical conduct and the highest standards of professional accountability

During development of our Leisura application, I discovered our AI recommendation algorithm was unintentionally favoring premium travel options over budget alternatives. As team lead, I immediately organized an emergency meeting to address this bias despite our tight deadline. I researched ethical AI guidelines and proposed implementing a weighted randomization feature to ensure fair representation of all budget ranges. Though this required significant last-minute code changes and extra hours of work, we successfully demonstrated an ethically sound version that received commendation from our academic supervisor for prioritizing ethical design over convenience.

The ability to engage with a creative, innovative and proactive environment

When developing Leisura, I noticed most travel apps used static questionnaires that produced generic recommendations. I proposed exploring conversational AI to better understand traveler preferences, despite having limited experience with natural language processing. I researched open-source AI frameworks during evenings, presented a working prototype to the team, and organized collaborative workshops to refine the approach. This innovation resulted in a lightweight chat interface that significantly improved user engagement during testing and became our application's standout feature, demonstrating my willingness to proactively explore new technologies to enhance project outcomes.

Demonstrated ability to effectively communicate both with other engineers and with stakeholders from different fields.

In the Leisura project, I regularly bridged communication between technical team members and non-technical tourism stakeholders. I created simplified visual flowcharts and used accessible analogies like "digital tour guides" to explain complex AI functionality without technical jargon. I established weekly check-ins to translate stakeholder feedback into specific technical requirements while explaining technical constraints in practical terms. This approach resulted in a final product that successfully balanced technical feasibility with stakeholder expectations, receiving positive feedback from both technical assessors and industry representatives.

Demonstrated ability to use and manage information

For the Leisura project, I created comprehensive documentation with clear schema diagrams and API endpoints for team accessibility. I also implemented a simple caching mechanism for frequently accessed destination information. This organized approach reduced our application's loading time by approximately 40% and allowed us to efficiently incorporate additional data sources midway through development, demonstrating effective information management under changing project requirements.

The ability to manage your own performance in a professional environment.

During Leisura's development, I initially struggled to balance leadership responsibilities with front-end development tasks, missing early sprint deadlines. I analyzed my time allocation and discovered I was spending too much time in meetings. I implemented a personal productivity system using JIRA, established dedicated "focus hours" for coding each morning, and set clearer boundaries for my availability. I also sought regular feedback from my supervisor on my leadership approach. These adjustments enabled me to meet my development deadlines while providing effective team guidance, ultimately completing the project two days ahead of schedule with all core features implemented.

A demonstrated ability to work as part of a team and to show leadership when required.

During Leisura's final sprint, two team members had to reduce their involvement just as we were implementing our most complex feature. I called an emergency meeting to redistribute remaining work based on each member's strengths, volunteered to take on additional backend tasks despite my front-end specialization, and created a shared progress dashboard for visibility. To maintain morale, I organized brief daily check-ins starting with positive updates and arranged informal virtual coffee breaks. This leadership approach helped us complete the project on time with all essential features working correctly, resulting in one of the highest evaluations in our subject for both technical implementation and teamwork.

If you would like me to attend an interview, please contact me on this address or call me on 0430 053 062.

I look forward to hearing from you and attach my resume for your consideration.

Regards,

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