

Personal Statement

Zeta Chua

Portfolio: [[ReactJS Portfolio Website](#) & [Latest ReactJS Side Projects](#)]

From a young age, I have been captivated by technology's ability to shape our world. My curiosity grew as I delved deeper into computer science, discovering not just a passion for solving technical challenges but for crafting experiences that inspire and connect people. This drive for impactful innovation led me to pursue a Computer Science degree at NTU, where I uncovered the transformative potential of AI, particularly in AR/VR applications. Now, with professional experience and a clear vision, I am eager to deepen my expertise in AI to drive meaningful change.

During my academic journey, I combined creativity and technology to resonate with users on a personal level. My Final Year Project—a motion capture pipeline developed using TensorFlow.js and Unity—explored AI's potential to create immersive experiences. It was immensely rewarding to see an idea evolve into a working application integrating machine learning, motion capture, and real-time interactions. This milestone reinforced my commitment to advancing intuitive, user-focused AI solutions.

As a Digital Twin Software Engineer at Dyson, I expanded this foundation by working on AI and data-driven solutions that transformed real-world operations, from improving workflow efficiency to developing predictive models. Outside of work, I pursued personal projects that pushed the boundaries of AR/VR and AI. From creating AI Twins for professionals to developing AR applications for art exhibitions, I have been inspired by these technologies' potential to enrich human experiences.

Reflecting on my journey, I find the intersection of innovation and empathy most fulfilling—developing AI-powered solutions that respond to genuine human needs. This is why I am drawn to the Master's in Engineering and Design program at NUS, particularly the AI specialization. I aim to refine my technical skills and design AI applications that are both advanced and accessible. The program's focus aligns perfectly with my career aspirations, and I am excited to learn from NUS's esteemed faculty while collaborating with a diverse peer group.

I am confident this program will equip me with the expertise and perspectives needed to make a positive impact in the field. My long-term goal

is to leverage my skills to develop AI applications that not only serve industries but also improve lives by making technology more user-centric and relatable.

Thank you for considering my application. I look forward to the opportunity to contribute to and grow within the NUS community.

Sincerely,
Zeta Chua