

Kevin Nguyen

Abbotsbury, 2176 NSW | [LinkedIn](#) | 0404864179 | kevinnk259@gmail.com

EDUCATION

University of New South Wales (UNSW)

Kensington, NSW

Bachelor of Engineering (Honours), Major: Mechatronics

Graduation Date: June 2025

- Organizations/Awards: Honours Program

University of New South Wales (UNSW)

Kensington, NSW

Bachelor of Science, Major: Computer Science

Graduation Date: June 2025

ACADEMIC PROJECTS

Maze-Traversing Robot

3rd Year UNSW, Mechatronics

- Collaborated with a team of 4 members with no prior robotics knowledge to design, build, and program a robot capable of navigating through a maze.
- Applied a combination of programming, mechanical, and electrical skills to develop the robot from scratch within an 8-week time frame.
- Successfully guided the team in learning essential robotics concepts and achieving the project goals, demonstrating effective communication and leadership abilities.
- Adapted to challenges and iterated on the robot's design, resulting in a robust and efficient system that met the project requirements.
- Gained valuable experience in project management, interdisciplinary teamwork, and rapid prototyping.

Social Media App Backend

2nd Year UNSW, Computer Science

- Worked in a team of 5 to develop a high-performing backend for a social media app, using Python and Java, within a 10-week deadline.
- Implemented encryption, efficient processing, privacy, and data storage features, ensuring the security and scalability of the application.
- Achieved over 90% on the project, demonstrating the team's commitment to quality and adherence to best practices in software development.
- Enhanced proficiency in programming languages and frameworks, as well as developing a deep understanding of backend systems and their requirements.
- Strengthened collaboration and communication skills by working closely with team members to deliver a complex, multi-faceted project.

Microplastic Filter for Rivers

4th Year UNSW, Mechatronics

- As part of a 6-member team, developed an innovative microplastic filter for rivers that achieved 80% filtration efficiency using ferrofluid technology.
- Employed engineering planning methodologies such as TRIZ and Axiomatic Design Theory to create an energy-renewable, self-sustaining solution.
- Utilized CAD software and physical experiments for prototyping, refining designs based on quantitative data, and ensuring the feasibility of the solution.
- Acquired knowledge in material selection and power transmission, crucial to the development and optimization of the microplastic filter.
- Scored over 90% on the project and received the People's Choice Award in Engineering Design, reflecting the team's exceptional work and commitment to sustainable engineering.

WORK EXPERIENCE

Kitched

Sydney, NSW

Machine Learning Engineer

March 2024 – Present

- Developed and deployed a sophisticated NLP model that converts recipes into JSON format and generates descriptive tags, enhancing content accessibility and searchability.
- Utilized cutting-edge technologies including PyTorch, Python, Docker, Transformers, Hugging Face, Scikit learn, TensorFlow and Flask to design and implement the model to industry standards.
- Led the machine learning engineering team, overseeing the deployment of the model to an industrial standard, ready for robust commercial use.
- Collaborated closely with the backend team to ensure seamless integration and deployment of the model, achieving a deployment success rate of 100%.
- Created a recommendation system that personalized user experiences, which increased user engagement by 23%.
- Maintained and monitored the deployment process, achieving a system uptime of 99.8% and reducing downtime by 50%.
- Instrumental in increasing the efficiency of recipe processing by 40%, leading to faster content update cycles and improved user experience.

Ozi4x4 Pty Ltd

Smithfield, NSW

Operations Manager

October 2023 – February 2024

- Responsible for all aspects of running an online business, including website development and design, e-commerce operations, digital marketing, and customer service.
- Developed and maintained the company website, resulting in a 43% increase in website traffic and a 29% increase in online sales.
- Managed the company's social media accounts, resulting in a 40% increase in followers and a 20% increase in engagement.
- Developed and maintained strong relationships with suppliers and vendors, resulting in improved product availability and better pricing.
- Managed the company's finances, including budgeting, forecasting, and reporting.
- Trained and managed a team of 3 employees, providing guidance and support to ensure high levels of performance.

Masman Group Ltd

Chipping Norton, NSW

Data Entry Operator

November 2022 – April 2023

- Accurately input an average of 2,000 data points per day into company's proprietary system, maintaining an error rate well below the department average.
- Delivered data entry assignments ahead of schedule by 10%, consistently for over two years, demonstrating exceptional time-management skills.
- Spearheaded a team project that updated and corrected 30,000+ outdated records in the company database.
- Automated routine tasks using macros, resulting in 30% efficiency increase in daily data entry tasks.
- Assisted in the creation of a new data validation process, resulting in a 15% reduction in data inconsistencies and errors.

LEADERSHIP & TEAMWORK EXPERIENCE

Engineering Design and Professional Practice

Kensington, NSW

University of New South Wales

August 2022 – December 2022

- Successfully awarded 'People's Choice Award' out of 105 teams in given engineering design competition.
- Collaborated with a team of 5 to design and develop an eco-mechanical product with purpose of filtering microplastic out of polluted rivers through extensive research, analysis, and development.
- Utilized collaborative software such as Canva, PowerPoint, and Teams to work asynchronously, while applying technical applications such as CAD to perform 3D modelling and animations to showcase product's feasibility and performance.

SKILLS & INTERESTS

Skills: Microsoft Office (Excel, Word) | Python | C++ | CAD | Digital Marketing | Robotics (ROS) |

Interests: Marketing & Operations, Analytics, Computer, Coding, Photography, Sketching, Design