OLIVER DUBOIS

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PROFESSIONAL SUMMARY

Final-year Software Engineering (Honours) student with practical experience in full-stack development and AI integration. Proven ability to lead technical teams and deliver production-ready MVPs, as demonstrated through work with Optik Consultancy. Seeking a graduate software engineering role to apply skills in Python, React, and cloud systems.

EXPERIENCE

Software Engineer – Optik Consultancy
November 2024 – Present
- Led development and delivery of an AI-driven team health platform focused on aligning team cohesion and performance insights
- Defined project scope, coordinated workload and ensured consistent delivery across engineering contributors
- Engineered a functional MVP using Python and React, integrating machine learning models to provide real-time performance and coaching analytics for leadership.
- Improved transparency into team cohesion through real-time dashboards and structured data reporting
- Collaborated in a startup environment to refine product features based on user feedback and stakeholder priorities

Forklift Coach & Process Officer – Bunnings Warehouse, Caringbah
May 2022 – Present
- Designed and delivered forklift and safety training programs, achieving 100% certification compliance for a 100+ store team.
- Managed invoicing, stock reports, and supplier communications, ensuring accurate documentation and timely order fulfilment.
- Trained team members in system use and reporting tools, ensuring compliance with safety and operational procedures.
- Coordinated data entry, reporting, and workflow tracking using internal systems, identifying opportunities to improve digital processes.
- Provided cross-team support through scheduling, issue resolution, and internal correspondence.

EDUCATION

Bachelor of Engineering (Honours) in Software Engineering
University of Technology Sydney | February 2021 - February 2026

PROJECTS

Sign Language Recognition System (Capstone Project): *Developed an end-to-end system that recognises emotional tone in text using machine learning and generates corresponding video output.*

- Implemented DistilBERT for emotion detection and semantic understanding of text input.
- Designed a text-to-video pipeline that maps emotional context to relevant video responses.
- Built preprocessing and tokenisation workflows for accurate contextual analysis.
- Integrated model outputs with a video selection API to produce synchronised multimedia results.
- Evaluated system performance using precision and F1 metrics to optimise emotional accuracy.

Personalised Fitness & Nutrition Tracker: *Created a gamified web app combining fitness tracking and AI-based meal planning.*

- Developed a React frontend and Node.js backend integrated with PostgreSQL.
- Implemented user authentication, progress dashboards, and a responsive UI.
- Designed an avatar reward system to boost user motivation and retention.
- Applied Agile workflows using GitHub and Jira to coordinate development.

JurisTechne Legal AI Platform – (JurisTechne.com): *Contributed to a start-up platform supporting AI-driven legal research.*

- Designed the end-to-end user interface for an AI-driven legal research startup.
- Established a scalable design system and brand identity to ensure visual consistency.
- Created intuitive data visualisation layouts to enhance readability for stakeholders.
- Iterated on high-fidelity prototypes and user flows within an agile environment.

TECHNICAL SKILLS

- **Languages:** Python, TypeScript/JavaScript, SQL
- **Frontend:** React, Next.js, HTML/CSS
- **Backend:** Node.js, REST APIs
- **Databases:** PostgreSQL, MySQL
- **Tools:** Git/GitHub, Jira/Confluence
- **Core Competencies:** Agile/Scrum, API Design, Data Visualisation, System Architecture, UI/UX

ACHIEVEMENTS

- Delivered a production-ready front end for a legal AI startup through multiple agile sprints.
- Achieved distinction-grade results across core software engineering subjects.
- Recognised for leadership and process improvements in warehouse operations.

References available upon request