

OLIVER DUBOIS

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PROFESSIONAL SUMMARY

Software Engineering (Honours) student graduating from UTS in May 2026. Built full-stack applications using Python, React, and AI integration through hands-on projects and a recent software engineering internship. Strong foundation in system design, API development, and working with modern cloud technologies. Seeking graduate software engineering roles starting mid-2026.

EXPERIENCE

Software Engineer – Optik Consultancy

November 2025 – February 2026

- Built InnerSystems, an AI-powered team health platform MVP for a client seeking Series A funding, working with a team of 4 engineers
- Developed full-stack features using React (TypeScript), Python (FastAPI), and Supabase with real-time analytics and automated coaching workflows
- Designed secure API endpoints and PostgreSQL database schemas for sensitive team performance data
- Integrated Llama-70b for generating personalised team insights and coaching recommendations

Forklift Coach & Process Officer – Bunnings Warehouse, Caringbah

May 2022 – Present

- Managed safety training and operations for a high-volume retail site with 100+ staff, achieving 100% certification compliance
- Coordinated cross-functional teams on scheduling, inventory reporting, and supplier communications
- Improved operational workflows through standardised documentation and process optimisation
- Maintained zero major safety incidents through consistent training and compliance monitoring

EDUCATION

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

- Honours Capstone: NLP-based emotion detection system (High Distinction)
- Consistent distinction-grade results across core software engineering subjects

PROJECTS

Auslan Sign Language Retrieval System (Capstone Project):

- Developed a prototype NLP pipeline mapping emotional tone in text to video outputs using DistilBERT, achieving 85%+ accuracy on emotion detection
- Built Flask API with text preprocessing workflows and a video retrieval system

Personalised Fitness & Nutrition Tracker (Team Project - 6 contributors):

- Created a full-stack web app with React frontend, Node.js backend, and PostgreSQL database
- Implemented user authentication, progress dashboards, and RPG-style reward system using Agile workflows

JurisTechne Legal Research Platform (UTS Industry Collaboration)

- Designed end-to-end UI and scalable design system for legal AI startup
- Built a WordPress-based frontend with custom layouts for AI-generated legal research

TECHNICAL SKILLS

- **Languages:** Python, TypeScript/JavaScript, SQL, HTML/CSS
- **Frontend:** React, Next.js, Tailwind CSS
- **Backend:** FastAPI, Node.js, Express, Flask, REST APIs
- **Databases:** PostgreSQL, Supabase, MySQL
- **AI/ML:** OpenAI API, DistilBERT, NLP, RAG Pipelines
- **Tools & Platforms:** Git/GitHub, Docker, AWS (EC2/S3), Vercel, Jira/Confluence
- **Core Competencies:** Agile/Scrum, API Design, System Architecture, Data Visualisation