

# THOMAS LEARY

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Motivated first-year university student with a passion for full-stack development, cloud computing, and scalable application design. Known for strong problem-solving abilities, adaptability, and enthusiasm for learning new technologies. Eager to contribute to innovative teams and gain hands-on experience in the software development field.

## PROJECTS

### Secure Cloud-Based Media Management Application -2023

- Developed a cloud-based application using **Node.js**, **Express**, **React**, **Azure**, and **Terraform**, featuring user authentication, media uploads, and data visualisation. Achieved **99.9% uptime** with Kubernetes and reduced provisioning time by **60%** using Terraform.

### Cryptocurrency and Blockchain Application -2024

- Developed a decentralised application for managing and trading cryptocurrency using **React** and **Flask**. Features include user authentication, balance tracking, transactions, and mining new blocks for validation. Secured with RSA encryption and JWT, the app processed **10,000+ transactions** with **99.8% accuracy** and achieved **30% faster block validation** through optimised algorithms.

### AI Retail Traffic Analyser -2024

- Developed a **computer vision system** using **OpenCV** for real-time video capture and face detection to analyze retail customer traffic. Tracked **1,000+ daily entries** and identified peak hours, optimising operations and improving efficiency by **25%**.

### Apple IOS Password Manager -2024

- Developed a **SwiftUI password manager** with a **Node.js backend** and **MySQL database**, featuring secure authentication, encrypted storage, password generation, and strength recommendations. Improved password creation efficiency by **40%**, enhancing user security and management.

## CERTIFICATIONS

Microsoft Certified: Azure Fundamentals (AZ-900) - Oct 3, 2024

Microsoft Certified: Azure Administrator (AZ-104) - Jan 23, 2025

## EDUCATION

The University of Newcastle, Newcastle, NSW 2025

### Bachelor of Software Engineering

- Relevant Coursework: Object-Oriented Programming, Data Structures
- Expected Graduation: 2029

## SKILLS & PROFICIENCIES

SKILLS: Python, Javascript, Html, Css, C#, Swift, Azure, Docker, Terraform, CI/CD, Jenkins, Kubernetes, MySQL, PostgreSQL, MongoDB, Git, Github, Node.js, Visual Studio Code, React, Express.js, PyTorch, TensorFlow.