

Mithun Sivanesan

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PORTFOLIO

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WORK EXPERIENCE

Digital Technology Solutions, University of Newcastle

Sep. 2025 - Sep. 2026

DevOps Engineering Assistant

Callaghan, NSW

- Supported the delivery, maintenance, and enhancement of enterprise technology platforms across the University in a modern DevOps environment, contributing to continuous improvement of mission-critical applications.
- Led development of secure, performant data ingestion pipelines in Microsoft Fabric as part of a data service framework to facilitate the decommissioning of a legacy data analytics platform, modernising the University's data infrastructure.

University of Newcastle

May 2026 - Aug. 2026

Research Assistant

Callaghan, NSW

- Developing and integrating a SaaS linking AI vision outputs with routing and scheduling logic, as part of an applied research project with local government and community partners
- Building Express-based backend APIs to support system orchestration across AI-based image analysis and sustainable vehicle routing components, contributing to data handling, testing, and validation

NUbots

Sep. 2024 - Present

Senior Team Member

Newcastle, NSW

- Oversaw development on NUbots' behavior and DevOps systems, including Docker build environment management.
- Updated Docker build environment with over 50+ dependencies to newer base image, fixing any compatibility issues as result of newer image.

PROJECTS

DressLink

May 2026

Innovate for Impact Hackathon, NGM Group

Newcastle, NSW

- Built a full-stack referral management platform using React, Node.js/Express, and Azure Cosmos DB, reducing manual data entry through end-to-end AI automation.
- Delivered a production-ready pipeline from partner form submission to a fully AI-triaged staff dashboard within a hackathon timeframe, collaborating across frontend, backend, and AI layers.

EDUCATION

University of Newcastle

Feb. 2023 - Nov. 2026

Bachelor's in Software Engineering (Honours)

Newcastle, NSW

- 6.3 GPA as of January 2026.
- College Commendation List: 2023, 2024
- Developed expertise on topics such as Data Structures & Algorithms, Data Security, Enterprise Software Architectures, and Machine Intelligence.

SKILLS

Programming Languages: Java, Python, SQL, JavaScript, TypeScript, C++, C#

Frameworks: Next.js, Express.js, React, Spring Boot, PyTorch

Build Systems/Package Managers: uv, CMake, Maven, Gradle, npm

Data Analytics: Microsoft Fabric

CI/CD: Docker, Linux, Bash/Shell Scripting, GitHub Actions

Project Management: GitHub, Jira