

Robin Mahato

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Information Technology student at the University of Newcastle, graduating in July 2027, with hands-on experience building full-stack, Java and peer-to-peer systems and supporting networks. Contributed within a six-person team to win first place at NGM Group's Innovate for Impact Hackathon by developing FleetWise for HealthWISE during a two-day event involving 200+ technology participants. Brings practical problem-solving, clear documentation and a willingness to learn unfamiliar systems; seeking a WIL placement to contribute to real delivery work and develop stronger professional engineering practices.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, SQL, HTML, CSS
Web & Backend: React, Node.js, Express, Java Servlets/JSP, REST APIs, OOP
Data & Security: PostgreSQL, MySQL, JWT, bcrypt, prepared statements, validation
Testing & Tools: Unit testing, integration testing, API testing, Git, GitHub, Vercel

EXPERIENCE

Mobile Solution & Training Center

Network Support Intern

Kathmandu, Nepal

Jan 2022 - Dec 2022

- Configured routers and switches and diagnosed connectivity, printer, cabling and hardware issues for end users.
- Maintained support logs and inventories, explained fixes clearly and escalated complex faults with useful documentation.

SELECTED PROJECTS

FleetWise - AI-Assisted Fleet Management Prototype

Team Project, Applied AI

hunterheadline.com.au/article/ngm-group-hackathon-delivers-digital-solutions-for-regional-charities

- Collaborated in a six-person team to turn HealthWISE's fragmented vehicle-booking and record-keeping process into a centralised fleet prototype during NGM Group's two-day Innovate for Impact Hackathon.
- Worked under a fixed event deadline alongside 200+ technology participants, helping the team shape and present a practical solution that achieved first place.

BudgetBrain AI - Full-Stack Finance Application

React, Node.js, PostgreSQL

github.com/robin-mahato112/budgetbrain

- Built a payday guardrail that converts simulated bank data, income and protected costs into one safe-to-spend figure and four money-pressure states; it does not connect to a live bank.
- Implemented REST APIs, JWT/bcrypt controls, validation and database migrations; achieved 19/19 automated checks after correcting form-state, accessibility and configuration defects.

DirectSend - Secure Peer-to-Peer File Transfer CLI

TypeScript, WebRTC, WebSockets

github.com/robin-mahato112/Secured-P2P-file-transfer-CLI

- Created a two-workspace TypeScript monorepo with token-based WebRTC streaming, WebSocket signalling, progress reporting, timeouts, filename sanitisation and SHA-256 verification.
- Documented connection-timeout and Windows native-module constraints so setup and known limitations were clear to other developers.

UniX Course Enrolment System

Java Servlets/JSP, MySQL

Private university project

- Implemented four enrolment business rules across four JSP views using Java Servlets and MySQL, supported by prepared statements, server-side validation and authenticated session controls.

EDUCATION

The University of Newcastle

Bachelor of Information Technology

Callaghan, NSW

Expected July 2027

Relevant study: Applied AI | Cloud Computing | Data Engineering and Mining | Web Engineering, Systems Analysis and Design, Data Structures, Cybersecurity, Network and System Administration, Human-Computer Interaction.

AWARDS & ACHIEVEMENTS

First Place - Innovate for Impact Hackathon: Six-person team winner at NGM Group's 12-13 May 2026 event; the result and FleetWise solution were featured by Hunter Headline. hunterheadline.com.au/article/ngm-group-hackathon-delivers-digital-solutions-for-regional-charities

International Excellence Scholarship: Awarded AUD 15,000 per year by the University of Newcastle in recognition of academic merit.