

ROBIN MAHATO

Problem Solver | Critical Thinker | Hackathon Winner

Newcastle, NSW | 0452 094 011 | mhtrobin123@gmail.com

[LinkedIn: robin-mahato-50a19a345](#) | [GitHub: robin-mahato112](#) | [Portfolio: robinm.online](#)

PROFESSIONAL SUMMARY

Bachelor of Information Technology student at the University of Newcastle (expected July 2027) with hands-on experience across full-stack development, secure Java web systems, REST APIs, relational databases, automated testing and deployment-ready workflows. Completed a 12-month network support internship and won an AI hackathon by delivering a working team solution under a 24-hour deadline. Based in Newcastle and ready to contribute to software teams through practical problem solving, coding, testing, debugging, client support and continuous learning.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, SQL, HTML, CSS

Frameworks: React, Node.js, Express, Java Servlets, JSP, Next.js

Data & security: PostgreSQL, MySQL, Prisma ORM, JWT, bcrypt, prepared statements, validation

Testing & delivery: Vitest, React Testing Library, Supertest, Node test runner, Git, GitHub Actions, Vercel, Azure, Docker

Engineering: OOP, MVC, DAO, REST APIs, requirements analysis, debugging, Agile, CI/CD, system design

SELECTED SOFTWARE PROJECTS

BudgetBrain AI - Full-Stack Finance Application | React | Node.js | Express | PostgreSQL | Prisma

Engineered a full-stack payday guardrail that calculates safe-to-spend, protected money and recovery gaps through deterministic backend logic, with AI limited to plain-English explanations.

Implemented JWT authentication, bcrypt password hashing, Zod validation, rate limiting, structured logging, database migrations, user-data export/deletion and provider-based demo bank sync.

Added automated frontend and API tests with Vitest, React Testing Library and Supertest, plus deployment configuration for Vercel and cloud-hosted backends.

[View BudgetBrain on GitHub](#)

DirectSend - Secure Peer-to-Peer File Transfer CLI | TypeScript | Node.js | WebRTC | WebSockets

Built a TypeScript monorepo for direct file transfer over WebRTC DataChannels; the signaling server relays connection metadata without storing or proxying file content.

Implemented token-based room coordination, streamed chunk transfer, progress reporting, filename sanitisation, SHA-256 integrity verification, timeouts and automated Node tests.

[View DirectSend on GitHub](#)

UniX Course Enrolment System | Java | Servlets | JSP | MySQL | MVC/DAO

Developed a server-rendered enrolment workflow covering authentication, semester selection, course enrolment, prerequisite, capacity and study-load rules, with clear validation feedback.

Applied MVC and DAO patterns, connection pooling, prepared statements, bcrypt password hashing, HTTPS, session controls and server-side validation; documented requirements, sequence diagrams and testing outcomes.

Developer Portfolio | Next.js | React | GitHub Actions | Vercel

Created and deployed a statically rendered, responsive portfolio on Vercel with accessible semantic structure, SEO metadata, reusable components, theme persistence and automated build checks.

[Live portfolio: robinm.online](#)

EXPERIENCE

Network Support Intern | Mobile Solution & Training Center | Kathmandu, Nepal | Jan 2022 - Dec 2022

Configured and maintained routers and switches, resolved frontline connectivity, printer, cabling and hardware issues, and escalated complex faults to senior technicians.

Maintained network logs and device inventories and supported technical documentation and procurement activities, building a disciplined approach to client support and troubleshooting.

EDUCATION

Bachelor of Information Technology | University of Newcastle | Expected July 2027

Relevant study: Web Engineering, Systems Analysis and Design, Data Structures, Cybersecurity Fundamentals, Network and System Administration, Human-Computer Interaction.

ACHIEVEMENT

First Place - Innovate for Impact Hackathon | Major League Hacking | 2026

Collaborated to design, build and demonstrate FleetWise, an AI-assisted fleet-management solution for a regional not-for-profit, within a 24-hour delivery window.