

# PRANTA ROY

Master of Information Technology Student, University of Waikato | Seeking a Backend / Full-Stack Development Internship

Hamilton, New Zealand · +64 22 567 0097 · roypranta97@gmail.com  
[prantaroy.me](https://prantaroy.me) · [github.com/PrantaRoy](https://github.com/PrantaRoy) · [linkedin.com/in/pranta-roy-cse](https://linkedin.com/in/pranta-roy-cse)

## PROFILE

Master of Information Technology student at the University of Waikato, looking for a 400-hour internship where I can learn from an experienced team and contribute from day one. I came into the degree with a solid grounding in backend and full-stack development, built through personal and academic projects, and I'm now developing that further alongside coursework in secure cloud application engineering, programming project and advance network security. I'm a quick learner, comfortable picking up a codebase, and I document as I go so my work is easy for a team to pick up.

## TECHNICAL SKILLS

- Languages** JavaScript, TypeScript, PHP, Python, SQL
- Backend** Node.js, Express, NestJS, Laravel, FastAPI, Prisma, REST API design
- Frontend** React, Vite, Tailwind CSS, Bootstrap, jQuery
- Databases** MySQL, PostgreSQL, MongoDB, Redis, AWS DynamoDB
- Cloud & DevOps** AWS (EC2, S3, Lambda, SQS, Cognito, CloudFront, CloudFormation), DigitalOcean, Linux, Docker, CI/CD, Git
- Security** Role-based access control, JWT and session auth, audit logging, secrets management
- AI development** LLM feature integration, prompt and cost design; daily use of Claude, Cursor and Copilot
- Ways of working** System design, multi-tenant architecture, requirement analysis, documentation, Jira, Asana

## ACADEMIC PROJECTS

- HRM PLUS** — Master's capstone, COMPX576-26B 2026
- One database per tenant with a control-plane registry; JWT auth and role-based access for admin, HR, manager and staff.
  - Attendance capture (online, QR and offline), configurable leave types on a multi-step approval engine, payroll runs with overtime, holidays and tax.
  - AI-assisted candidate screening and document parsing, with generated questions reviewed before publishing.
  - Localised for New Zealand — timezone, NZD and public-holiday calendar. Test coverage above 80%.  
*Express, TypeScript, Prisma, MySQL, React, Vite, Tailwind, Docker, CI/CD*
- Event Photo Cloud & Face Matching Platform** — AWS cloud project 2026
- Event registration with QR check-in; face matching returns each guest only the photos they appear in.
  - Infrastructure defined in CloudFormation — Lambda and SQS pipeline, Cognito auth, DynamoDB, CloudFront, alarms and budget controls.
  - Privacy by design: participants can switch matching off and their face data is deleted with it.  
*AWS, Laravel, React, Vite, DynamoDB*

## SELECTED PRODUCT DEVELOPMENT

- RadarSchool** — SaaS school management ERP, live at radarschool.com
- Planned from the first schema — academics, assessment, fees and invoicing, library, transport, RBAC, REST API and reporting.  
*Laravel, PHP, MySQL.*
- Trusted HRM** — HR and payroll platform with iOS and Android apps
- Database and system design, biometric attendance, payroll and tax calculation, shift rostering, multi-branch RBAC. *Laravel, MySQL, AWS S3, Pusher.*
- OnestQ Smart Queue** — Kiosk, display and counter queue system
- Real-time token calling across three synchronised surfaces, with voice announcements and four languages. *Laravel Reverb, Pusher.*
- Infix LMS** — Course marketplace platform
- Courses, exams and quizzes, payment gateways, revenue and commission accounting, Zoom integration, two-factor login. *Laravel, MySQL.*

## EDUCATION & AWARDS

- Master of Information Technology — University of Waikato, Hamilton** 2026 – 2027
- Papers: Security for Advanced Networks; Secure Cloud Application Engineering; Programming Project (COMPX576-26B).
- Vice-Chancellor's International Excellence Scholarship** — merit award from the University of Waikato on entry.
- Bachelor of Computer Science & Engineering — Daffodil International University** 2015 – 2018

## ADDITIONAL

Work rights: available from November 2026, full-time under current visa conditions. · Transport: own car; overseas driver license valid in New Zealand.

English: PTE Academic, overall 63 (January 2026). · References available on request.