

MATTHEW LIN

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Experience

Redtrain Networks

Cheltenham, VIC

Software Engineer

Jan. 2025 - Present

- Migrated 23 pages and 88 API integrations of a service qualification frontend to Quasar v2 (Vue 3), upgrading to Pinia, Composition API, and TypeScript for better performance and maintainability
- Enhanced the service qualification backend to validate customers within a 360-degree radius of a current radio, boosting sales opportunities by 200% and streamlining the provisioning process
- Captured images for photogrammetry with Meshroom to create point clouds stored in a KD-tree, then used them in Python for ray casting to simulate receiver visibility through Line of Sight (LOS).
- Developed and launched an advertising page, resulting in a 10% increase in sales by driving customer engagement and conversions

Curtin University

Bentley, WA

Software Engineer

Jun. 2024 – Dec. 2024

- Designed and implemented responsive, accessible frontend interfaces for a health records application based on Figma prototypes using Flutter, enhancing user experience across devices
- Integrated API data with backend systems, optimizing performance and streamlining user interactions with real-time health record updates
- Developed and executed unit tests using Flutter's inbuilt testing package

Projects

Pizzahouse (Laravel, MySQL)

- Pizza ordering website for a small business built with Laravel, Blade and MySQL
- User registration & authentication, with sign-up (name, email, password), login/logout functionality, and session management
- Developed a user-facing order placement system and an admin panel for staff to efficiently manage and process pizza orders

Inventory Management System (Visual Basic)

- Developed an Inventory Management System for my high school cafeteria, enabling them to track stock levels, and generate reports.
- Implemented login system with password authentication and ability to add new users.
- Designed and developed data entry forms to add, delete, edit and update records with the corresponding input validation for each field
- Developed custom algorithms for sorting, searching, and filtering data, enhancing system performance and flexibility

Skills

Vue, TypeScript, Laravel, Quasar, Flutter, Python, Java, C, MySQL, MATLAB, Agile, Git

Education

Melbourne University

Melbourne, VIC

Bachelor of Science in Computing and Software Systems

Dec. 2024

- Coursework: Design of Algorithms, Database Systems, Object Oriented Software Development, Linear Foundations of Algorithms, Software Modelling and Design, Graphics and Interaction, Machine Learning, Computer Systems