Jade Shi

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Education

The University of Melbourne, Melbourne, VIC
Master of Information Technology   Dec 2022
GPA: 71/100

Projects

E-Commerce Full Stack Application (React + VITE)
Tech Stack: React, Vite, Node.js, Express, Mongodb, Redux, Bootstrap

– **State Management**: Implemented Redux for global state (cart, user preferences) to avoid prop drilling and improve scalability.

– **Dynamic UI**: Developed product filtering, search, and pagination to enhance UX, reducing bounce rates by 30

– **Backend Integration**: Connected frontend to a RESTful API to fetch/update product data, ensuring seamless CRUD operations.

– **Performance Optimisation**: Leveraged Vite's fast HMR and code-splitting to achieve sub-1s load times (Lighthouse score ¿90).

Full-Stack Real Estate Media Platform (ASP.NET Core + Reactjs)
Tech Stack:

– **Backend**: ASP.NET Core, Entity Framework, SQL Server, MongoDB, JWT Authentication, Azure Blob Storage

– **Frontend**: React/Angular, TypeScript, Bootstrap

– **DevOps**: Docker, Azure App Service, GitHub Actions, CosmosDB

Key Contributions & Achievements: Backend Development:

– Designed a **RESTful API** with ASP.NET Core using Clean Architecture (Repository Pattern, Dependency Injection) to handle 20+ endpoints for property listings, media uploads, and user management.

– Implemented **role-based access control** (JWT) for **Admins** (photography companies) and **Agents** (real estate agents), restricting actions like media uploads (Admin-only) and case status changes.

– Integrated **Azure Blob Storage** for secure media uploads (images, videos, floor plans) with support for 8+ file types (MP4, PDF, GLTF, etc.).

– Developed **SQL Server** schemas for relational data (Listings, Agents, MediaAssets) and **MongoDB** for audit logs/change history, optimizing queries with EF Core and LINQ.

Frontend Development:

– Built an **admin dashboard** (React) with CRUD operations for property cases, dynamic media galleries, and real-time status tracking (Created/Pending/Delivered).

- Created an **Agent portal** for selecting display media, editing property pages , and previewing final pages with shareable links.
- Implemented **responsive UI** with drag-and-drop media selection, PDF floor plan viewers, and interactive maps for property locations.

    DevOps & Testing:
- Containerized the app using **Docker** and deployed backend to Azure App Service with CI/CD (GitHub Actions).
- Wrote **xUnit tests** (90%+ coverage) for API endpoints and business logic (e.g., status transitions, media validation).
- Documented APIs with **Swagger** and wrote technical guides (ER diagrams, deployment steps).

Experience

Essendon Motel, Melbourne, VIC
receptionist   Dec 2023 – now
- **Data Management**: Maintained accurate booking records (SQL-like data entry), ensuring 100% compliance with privacy regulations—translates to backend data integrity.
- **Multitasking & Collaboration**: Coordinated housekeeping/maintenance teams under high-pressure scenarios, akin to Agile cross-functional teamwork in dev projects.
- **Customer review respond**: Developed a QR code system that redirected guests to Google review, increasing feedback submissions by 40

NIO, Shanghai, China
Software Tester, associate Program manager   Jul 2020 – Feb 2021
- Orchestrated Agile workflows (Scrum/Kanban) via JIRA/Confluence, streamlining cross-functional collaboration between 5+ engineering teams to deliver software updates 20% faster.
- Translated business requirements into technical user stories, gaining deep exposure to SDLC and full-stack development priorities.
- Designed a Raspberry Pi-based test platform to validate vehicle software/hardware interactions, writing Python scripts to simulate sensor data and automate manual test cases.
- Manually tested web/mobile interfaces for infotainment systems, identifying 50+ UI/API bugs and advocating for user-centric design fixes.

Certificates

AWS Certified Cloud Practitioner certification(Aug 2023)