

ALEX (YANLIN) LI

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Dynamic and detail-oriented full-stack developer with experience designing, developing, and deploying responsive web applications. Adept at working across the entire software development life cycle, collaborating with cross-functional teams to deliver seamless, scalable solutions. Committed to staying up-to-date with emerging technologies and trends to deliver cutting-edge solutions.

TECHNICAL TOOLS

- **Languages:** JavaScript, TypeScript, HTML5, CSS3, Python, C
- **Frameworks/Libraries:** React, React Native, Next.js, Nest.js, Node.js, Express.js, Redux, Tailwind CSS, Sass, GraphQL, Flask, Jest
- **Build Tools:** Vercel, Webpack, Vite, Esbuild, PM2, Bitbucket
- **Databases:** PostgreSQL, MySQL, MongoDB, Mongoose, Prisma
- **DevOps/Version Control:** Git, GitHub, Postman, Jira, Jenkins, AWS S3, AWS EC2, Docker, Pulumi, Azure

WORK EXPERIENCE

Full-stack developer

Pospal Australia Pty Ltd, Sydney

Feb 2025 – Present

- Contributed as the core developer in building a production-ready Kitchen Display System (KDS) using React Native, TypeScript, Node.js, and MongoDB.
- Led the system architecture design, including data modeling, service separation, and communication protocols to ensure scalability and maintainability.
- Built a real-time order management engine with Socket.IO and custom TCP protocols, achieving sub-second sync across distributed KDS devices.
- Developed responsive, high-performance UI components (order cards, live timers, dynamic filters) optimized for demanding kitchen workflows.
- Built a web-based permission management system for agents and merchants using Next.js, Tailwind CSS, and Axios, supporting real-time service activation, user grouping, and access-level control with seamless backend integration.
- Developed backend services using Node.js, Express, and Flask, with MongoDB for efficient storage, indexing, and querying of complex order states.
- Integrated with third-party POS APIs for seamless bi-directional order synchronization and real-time updates.
- Deployed backend services on AWS EC2 with load balancing, used S3 for media storage
- Set up and maintained a CI/CD pipeline via GitHub Actions, enabling smooth, automated production deployments.

Full-stack Developer

Jobpin AI, Sydney

Oct 2024 – Feb 2025

- Developed a subscription-based pricing system using NestJS and MongoDB, enabling dynamic CRUD operations and robust API endpoints for front-end integration.
- Built a responsive plan comparison interface with React, TypeScript, Material-UI, and Emotion.js, improving user experience through modular CSS-in-JS design.
- Implemented Docker-based containerization for both backend and database services, and integrated CI/CD pipelines to automate builds, testing, and deployments.
- Created a custom NestJS service to automate seed data initialization, ensuring consistent database states across all environments.
- Improved API performance through optimized MongoDB queries and pagination, enabling faster response times and real-time data consumption.

- Maintained code quality using ESLint, Prettier, and Git hooks, enforcing consistent styles across JavaScript and TypeScript codebases.
- Conducted thorough API testing with Postman and wrote unit tests for backend services to ensure reliability and scalability.
- Collaborated in an agile team environment using Git (Git Flow), Bitbucket, Zeplin, and Jira for source control, design handoff, and project tracking.

Front End Software Engineer

Melfish, Melbourne

Oct 2023 – Jun 2024

- Developed a comprehensive event management application using Next.js, TypeScript, and MERN stack (MongoDB, Express, React, Node.js), enhancing user experience and interface efficiency.
- Integrated Axios for dynamic location features and implemented Google Analytics for tracking user engagement, ensuring data-driven insights.
- Applied performance optimization techniques, implemented best practices in web security, ensuring data integrity and user safety while adhering to web accessibility.
- Executed Jest for unit testing and quality assurance procedures, leveraging strong knowledge of data structures and algorithms.
- Contributed to application architecture and utilized Prisma for efficient database interactions with PostgreSQL, ensuring seamless data management.
- Utilized **Jest** for automated unit testing, ensuring robust functionality across components while maintaining code quality. Additionally, conducted comprehensive manual testing to cover edge cases, identifying and addressing potential issues early in the development cycle.
- Developed workflows through advanced CI/CD processes, engaged in debugging activities to resolve software defects, and maintained high-quality code standards.

KEY PROJECTS

VTGMAMA E-commerce Platform | May 2025 – Present

- Built a full-stack e-commerce platform using Next.js 15, React 19, TypeScript, Tailwind CSS, FastAPI, and MongoDB, following a clean front-back separation architecture.
- Developed secure JWT-based authentication with login, registration, and password reset flows, including role-based access control.
- Designed scalable RESTful APIs using FastAPI, covering product management, user operations, and checkout with async processing.
- Created a fully functional admin dashboard using shadcn/ui, enabling efficient management of products, categories, and tags with a clean and responsive interface.
- Applied Context API for global state management and Axios for API communication, enabling maintainable and scalable frontend logic.

EDUCATION

University of New South Wales | Feb 2021 – May 2023

Master of Information Technology - **Distinction**

Coursework: *Foundation of Computer Science, Principles of Programming, Database Systems, Data Structures and Algorithms, Computer Networks and Applications, Data Services Engineering*

Henan Institute of Science and Technology | Jun 2016 – Sep 2020

Bachelor of Information Technology

CORE COMPETENCIES

Agile Methodologies, UI & UX Design, Full-Stack Development, Web Application Development, Project Management, API Integration, Web Accessibility, Code Review, Cloud Computing, Testing & Debugging, Security Best Practices, CI/CD Practices, Database Management, Technical Documentation, Technical Troubleshooting.