


DOUGLAS YANG

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Summary

Full Stack Developer with hands-on experience building **modern web applications and secure APIs** using **React, TypeScript, Python, and RESTful services**. Familiar with component-based front-end development, CI/CD workflows, and collaborative software delivery. Experienced in working across the full development lifecycle from ideation to deployment and support, with a strong interest in **AI-enabled tools and responsible LLM integration**. A proactive learner who values code quality, testing, and clear communication, and enjoys working in supportive, purpose-driven environments.

Skills

- **Languages:** JavaScript/TypeScript, Python
- **Data base:** PostgreSQL, DynamoDB, MongoDB
- **Infrastructure / Cloud:** AWS, Infrastructure as Code (AWS CDK), VPC Networking (Subnets, Security Groups), Cloud-native Architecture
- **DevOps:** CI/CD Pipelines (GitHub Actions / GitLab CI), IaC, Docker, Kubernetes, Version Control (Git)
- **Frontend:** React, Tailwind CSS, HTML5, CSS3, Responsive Design
- **Backend:** Node.js, Express.js, RESTful APIs
- **AI:** Retrieval-Augmented Generation (RAG), LLM Agents, Convolution Neural Network(CNN)

Work Experiences

- 10/2025 - 01/2026
3D Bro
Sydney, NSW
Full-Stack Developer
 - Improved operational efficiency by developing custom Odoo ERP modules and designing intuitive frontend interfaces to streamline order and production workflows.
 - Designed and implemented an internal API abstraction layer for external logistics services, improving system **stability, scalability**, and reducing manual operational overhead.
 - Built end-to-end automation workflows using web services and backend systems, supporting scalable production operations.
 - Applied **web scraping and AI agents** to analyze trending models and topics, and performed **targeted AI-driven modeling** for selected high-potential trends to support **production planning and decision-making in a 3D printing farm**.
- 01/2025 - 10/2025
Max Hacker
Sydney, NSW
Full-Stack Developer
 - Significantly improved **maintainability and user experience** through frontend partly refactor and maintenance, making user achievements clearer and more intuitive to present..
 - **Developed responsive UI layouts** to ensure a consistent and user-friendly experience across **desktop, tablet, and mobile** devices.
 - Built a complete backend service architecture supporting **multi-role user scenarios**, improving system **security, data consistency, and overall business integrity**.

- Designed and deployed the system on the cloud, enabling **stable operation and elastic scalability** of the application.

10/2023 - 06/2024

Melfish

Remote

Internship Full-Stack Developer

- Developed frontend features for a community platform using Next.js and TypeScript.
- Contributed to backend **APIs** with **JWT-based authentication** using Express.js.
- Designed and developed a **RAG-based** chatbot independently, focusing on retrieval logic, prompt design, and response quality improvements.
- Collaborated with designers to deliver production-ready UI components.

04/2023 - 08/2023

Cyberlark Studio

Brisbane, QLD

Internship Developer

- Configured and maintained cloud-hosted environments and services.
- Developed a **real estate user management interface** using **React.js**, focusing on usability and maintainability.
- Used **AWS CDK** to manage cloud resources through **Infrastructure as Code (IaC)**.
- Participated in **DynamoDB table schema design and validation**.
- Proficient with **React.js**, **native Node.js**, and **DynamoDB** in full-stack development workflows.

11/2022 - 01/2023

Chinese Academy of Sciences

Beijing, China

AI Assistant

- Evaluated and validated CNN-based models, collaborating with researchers to analyse results and improve model performance.

Education

Brisbane, QLD	Master of IT University of Queensland
Brisbane, QLD	Developer Boot Camp JR Academy

Certifications

- AWS certified Cloud Practitioner
- EDB certified Essential PostgreSQL V13 DBA

Reference

- Reference upon request.