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# Austin Xu

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Portfolio: [Click Me](#)

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## OBJECTIVE

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With a solid foundation in **Full-Stack** development, I build **End-to-End** applications using modern software engineering practices. I have extensive **Front-End** and **Back-End** experience—**API integration**, **unit testing**—with proficiency in **JavaScript/TypeScript**, **React.js**, **.NET**, **SQL**, **MongoDB**, and **GraphQL**. I excel at deploying scalable applications in **AWS** environments, integrating **CI/CD** pipelines, and collaborating in **Agile** teams to deliver high-quality solutions. I contributed to an end-to-end **MLOps** pipeline—using **DVC** for data versioning and **MLflow** for experiment tracking—to fine-tune a Llama model with **RAG (LangChain)** and integrate an AI-powered e-commerce assistant into **Hugging Face Space**.

## KEY SKILLS

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**Front-end:** HTML, CSS, Javascript, **React.js**, **Next.js**, **SASS**, **TailwindCss**, **Zustand**, **Redux**

**Back-end:** **.Net core**, **Node.js**, **Express.js**, **Restful API**, **GraphQL**

**AI / MLOps:** **OpenAI APIs**, **Hugging Face**, **PEFT (LoRA)**, **DVC & MLflow (DagsHub integration)**, **Optuna**

**Database:** **MySQL**, **PostgreSQL**, **MongoDB**

**Version Control:** **Github**, **Github Actions (CI/CD)**, **Bitbucket**, **Gitlab**

**Programming Languages:** **Python**, **JavaScript**, **TypeScript**, **C#**, **PHP**

## WORKING EXPERIENCE

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### Full-stack Developer

**H.A.M Technology**, 2022 May – 2023 Feb

- Developed a **Short-term Rental integration platform** for a Sydney-based rental agency, enhancing operational efficiency as a key IT solution under H.A.M Technology.
- Architected and implemented **RESTful APIs** using **.NET core** and designed dynamic **front-end** modules with **React.js** and **Redux**, ensuring seamless and responsive functionality.
- Deployed the solution on **AWS EC2** for scalable hosting while leveraging **AWS S3** for effective storage management.
- Established a comprehensive **DevOps CI/CD** pipeline to automate code integration, testing, and deployment processes.
- Integrated extensive **Unit testing** frameworks within the **.NET** ecosystem to maintain high standards of code quality and system robustness.
- Successfully met 90% of business objectives, resulting in a 200% increase in client work efficiency.

## PROJECTS

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### AI Personal Projects

#### E-commerce AI assistant [GitHub](#)

A comprehensive **End-to-End LLM** project for building and deploying an **intelligent e-commerce assistant**.

**Tech Stacks:** PyTorch, Hugging face Transformers, Optuna, Next.js, GitHub Actions, DVC, MLflow, DagsHub

- Advanced AI assistant: **Fine-tuned TinyLlama 1B** model for e-commerce conversations
- MLOps Pipeline: Automated data **Preprocessing**, **Finetuning**, **Evaluation**, and deployment with **DVC**
- Experiment Tracking: Comprehensive logging with **MLflow** and **DagsHub** integration
- Intelligent Model Selection: Weighted scoring system using **BLEU 1-4** and **ROUGE-L** metrics
- Automated Deployment: Smart deployment to **MLflow** Model Registry and **Hugging Face Space**
- Web Application: Modern **Next.js** application interface with real-time conversations
- CI/CD Pipeline: Automated **GitHub Actions** workflow for feature development

### Full-stack Personal Projects

03.2023 – Current

Description: A selection of innovative web and software development projects, showcasing my expertise in full-stack development and focus on responsive, user-friendly design:

**Tech Stacks:** Next.js, React.js, TypeScript, JavaScript, Tailwind CSS, Styled-Components, Lucide

React, Zod, Node.js, Express.js, PostgreSQL, Prisma, Supabase, Clerk, Bcrypt, JWT, Vercel

- **Modern Full-Stack Rental Application (Currently in Development):** Built a full-stack, responsive web app using **Next.js 14**, and **TypeScript**, featuring **server/client component** architecture. Styled with **Tailwind CSS** for flexible UI, Integrated **Clerk** for secure authentication via **Prisma** on **Supabase**, and file storage with **Supabase Storage**. Forms are management by using **React Hook Form** and validated with **Zod**. Deployed on **Vercel** for **CI/CD**. [GitHub](#) | [Demo](#)
- **Accounting Business Web Page:** Developed a **responsive, interactive** webpage for a tax company using **React.js**, **Next.js**, and **TailwindCSS**. The project emphasizes professional design and adaptability across devices. [GitHub](#) | [Demo](#)
- **Full-Stack Login & Registration System:** Built a secure full-stack authentication system with user login and registration capabilities. Utilized **React.js**, **Node.js**, **Express.js**, and **Prisma** with **Bcrypt** for password hashing and **JSON Web Token** for session management. [GitHub](#)

## EDUCATION BACKGROUND

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University of Technology Sydney

2024.07 - 2025.07

**Major:** Master of Artificial intelligence

The University of Sydney

**Major:** Master of Professional Engineering (Software)

DongHua University

**Major:** Bachelor of Engineering

ranked **top 1%** in China (Computer science field)