
Austin Xu

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Portfolio: [Click Me](#)

OBJECTIVE

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

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

Full-stack Developer

[H.A.MTechnology](#), 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

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. [I kvJ wd](#) | [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

University of Technology Sydney

Current student

Major: Master of Artificial intelligence

The University of Sydney

2016.02 – 2019.05

Major: Master of Professional Engineering
(Software)

DongHua University

Major: Bachelor of Engineering

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