
Austin Xu

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OBJECTIVE

With a solid foundation in **Full-Stack Development**, I aim to leverage my expertise in **Software Engineering** to build comprehensive applications. I bring extensive experience in **Front-end** and **Back-end** development, **API integration** and **Unit Testing**, with proficiency in **JavaScript/Typescript, React.js, Node.js**, and **SQL, MongoDB, GraphQL**. Highly skilled in deploying applications within **Cloud infrastructures(AWS)** environments and integrating **CI/CD** pipelines, and collaborating effectively in **Agile** methodologies to deliver high-quality, scalable solutions.

KEY SKILLS

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

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

Database: MySQL, PostgreSQL, MongoDB

Version control: Github, Bitbucket, Gitlab

Programming languages: Python, JavaScript, TypeScript, C#, PHP

WORKING EXPERIENCE

Full-stack Developer

H.A.M Technology, 2022 May – 2023 Feb

- Developed a **Short-term Rental integration platform** to improve work efficiency for a rental agency in Sydney, Australia, as part of H.A.M Technology's IT solutions.
- Designed and built **Restful APIs** and core feature modules using **React.js, Node.js, GraphQL MongoDB** to support seamless functionality.
- Deployed the platform on **AWS EC2** for scalable hosting and utilized **S3** for efficient storage management.
- Implemented a **DevOps CI/CD pipeline** to automate development, testing, and deployment workflows.
- Incorporated **Unit testing** to ensure robust code quality and system reliability.
- Achieved 90% of the company's business objectives, increasing client work efficiency by 200%.

PROJECTS

Predicting Sydney Trains Arrival time by using LSTM

This project is to predicting Sydney trains arrival time by using a Long short-term memory neural network.

Technologies: Python, Pandas, Numpy, Keras, Matplotlib, Scikit-learn

- Collected more than **40,000** rows of data
- Using data **pre-processing** and **feature engineering** skills to deal with real raw data and construct, select, encode, normalize features.
- Designed and implemented a **deep learning processing** with the **LSTM** model to predict the train arrival time.
- Compared with different results and improve the accuracy of the model.

Results: The train arrival time was successfully predicted, and the prediction deviation was reduced to within 2 minutes. [GitHub](#)

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:

Technologies: 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, **PostgreSQL** via **Prisma** on **Supabase**, and file storage with **Supabase Storage**. Forms are managed 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](#)
- **World Clock Application:** Developed a world clock app using **React..js** and **Styled-Components**. This tool displays dynamic time zones, allowing users to add or remove cities, and features a **fully responsive design**. [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)