

YU JI

SOFTWARE ENGINEER

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GitHub

LinkedIn

Melbourne, VIC

SKILLS

Programming: JavaScript, TypeScript, Python, C

Frontend: React, Bootstrap, HTML, CSS

Backend: Node.js, Express.js, Flask, RESTful API's

Databases: MySQL, MongoDB

DevOps: GitHub, Docker, AWS

EDUCATION

Holberton School Australia

Full-stack Software Engineering Course

Feb 2023- Nov 2023

- Acquired comprehensive understanding and hands-on experience in web development;
- Implemented full-stack development projects, leveraging stacks including Python, JavaScript, TypeScript, MERN, CI/CD among others;
- Extended learning through Udemy.

Nankai University

Master Degree in Applied linguistics

2010-2013

- Second Language Acquisition
- Language Teaching
- Cross-Cultural Communication

EXPERIENCE

Software Engineer

freelance

2024 - now

- Developed custom software solutions for local business, ensuring optimal functionality and performance;
- Managed project timelines and deliverables;
- Provided ongoing maintenance and support for deployed applications.

PROFILE

Engaging, capable, and enthusiastic software engineer. Former language teacher and experienced migration consultant. I have a solution- and outcome-focused mindset, and blend adaptable skills, clear communication with technical abilities. I thrive on challenges, am energised by problem-solving, and dedicated to excellence in all aspects of my work.

PROJECTS

Backend Development - Tulip: an online dating platform

A progressive web application crafted to foster genuine connections through an intuitive and user-friendly interface.

- Equipped with necessary skills to implement the **MERN** stack architecture effectively;
- Architected the server infrastructure by using the MVC (Model-View-Controller) pattern and developed comprehensive **RESTful APIs** with CRUD operations, enabling efficient data handling and streamlined application flow;
- Integrated middleware for handling user authentication, utilising JWT to ensure secure and smooth user experiences;
- Implemented a unique matching algorithm to optimise user matches by prompting relevant and meaningful connections;
- Orchestrated **MongoDB** databases to handle data schemas and models, ensuring API robustness by developing, testing and debugging with Postman and Insomnia;
- Implemented **AWS S3** for handling file input/output operations and reliable picture storage solutions;
- Set up a **CI/CD** pipeline with GitHub Actions and Render;
- Coordinated with the front-end team using ReactJS and Tailwind to ensure seamless integration and a cohesive user experience;
- Followed **DRY** principles to enhance code readability and simplified future maintenance;
- Led project management with prioritising MVP focus, leveraging Trello for sprint tracking, and facilitating daily team interactions via Slack for **problem-solving**.

ReactJS Development - KF measurement

A modern commercial web solution designed to meet client's specific requirements, offering robust functionality for company branding, showcasing product series, major product specifications and more.

- Crafted a customised and responsive web application by leveraging **ReactJS** and its popular hooks to efficiently manage state and side effects, ensuring a dynamic and responsive user experience;
- Utilised React-Bootstrap and **Bootstrap** frameworks to enable rapid development of reusable components, enhancing user interaction and navigation;
- Integrated Sass for custom theme development, catering to client's branding and marketing needs, ensuring a cohesive and visually appealing interface;
- Leveraged **TypeScript** to enhance code robustness, minimising bugs;
- Implemented EmailJS for more targeted communication;
- Practiced **Agile** development methodologies and collaborated with **GitHub** for version control, employing branches, issues, pull requests and conflict resolution to ensure quality teamwork.

Project Manager

Easymode 2020 - 2023

- Facilitated efficient project management through clear communication, setting scopes and tracking milestones;
- Documented accurate records and provided timely feedback to team and clients;
- Collaborated with clients to address issues and optimise performance.

Immigration Consultant

AMRC 2016 - 2020

- Provided premium migration services with extensive consultation and settlement support;
- Developed case-by-case problem-solving solutions by analysing challenges;
- Enhanced client success and business growth.

Language Teacher

University of Melbourne 2016 - 2020

- Designed and delivered high-quality, student-centric lessons;
- Demonstrated adept classroom management and team spirit;
- Cultivated positive learning experiences and inclusive curriculums;
- Established strong relationships with colleagues and students.

REFERENCES

References are available upon request

Full-Stack Development: Kids Know

A full-stack web platform offering a fun and engaging educational experience by fostering independence and curiosity, empowering children to explore and learn.

- UI/UX design;
- Data schema and modeling;
- RESTful API design;
- Utilised JavaScript to craft dynamic and engaging experience for young learners, like creating everyday to-do lists, generating weekly schedules, expense tracking, and implementing a rewards system;
- Leveraged React's component-based architecture and Bootstrap's responsive design to create a sleek and user-friendly frontend interface;
- Powered by NodeJS, utilising the **Express** framework to provide robust server-side logic and API services;
- Integrated MongoDB and popular libraries including **Mongoose** to achieve scalability and efficiency in data management;
- Established a streamlined **GitHub workflow** for efficient collaboration and version control, including branching strategies, issue tracking, pull requests, and continuous integration/deployment pipelines to ensure code quality and project scalability.

Full-Stack Development: AirBnB Clone

Developed a functional clone of Airbnb, focusing on replicating core features with an emphasis on both front-end and back-end development.

- Utilised HTML5, CSS3, and JavaScript ES6 to craft a responsive and interactive user interface, ensuring full functionality that mirrors the Airbnb experience;
- Engineered a robust RESTful APIs using the **Python** Flask framework, facilitating seamless data handling and server-client communication;
- Implemented a Python-based command interpreter to manage application-specific tasks, enhancing the back-end functionality;
- Integrated dual database systems - file storage with JSON for flexible data handling and **MySQL** for relational data storage. Employed SQLAlchemy ORM for efficient database operations and interactions;
- Successfully replicated key features of Airbnb, demonstrating proficiency in full-stack web development and understanding of complex web application structures.

Full-Stack Software Engineering Study

- Acquired comprehensive and practical understanding of full-stack web development and CI/CD for building complete web applications;
- Routinely participated in live coding, pair programming, code review and feedback sessions;
- Established excellent working relationships with peers by regularly sharing knowledge, resources and insights and providing motivation.
- Comfortable learning new languages and frameworks by maintaining a growth mindset ;
- Collaborated in small teams to deliver a variety of projects, demonstrating composure and the ability to work under pressure.