YI CHEN
SOFTWARE DEVELOPER | PMP

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SKILLS

Javascript ES6+, MERN Stack (React, React-Redux, Redux Toolkit, Express, MongoDB, Mongoose), HTML 5, CSS 3, SCSS (Sass), jQuery, Node, Python 3, Flask, SQL, SQLite 3, Sequelize, Bootstrap, MySQL, PostgreSQL, Heroku, Github, Figma, Amazon Web Services (AWS), Webpack, Firebase, Google Map API, Test-Driven Development (TDD), Object Oriented Programming (OOP), Data Structures and Algorithms, Agile Project Management

PROJECTS

Moment | (ReactJS, Redux, HTML5, Python3, JavaScript, Flask, SQLAlchemy, CSS3, AWS S3, PostgreSQL)   **[live](#)** | **[github](#)**
Online social networking website enabling users to generate posts, engage in discussions, and create connections.
- Successfully integrated AWS S3 to enable seamless multi-image uploads for user posts and improve data security.
- Designed a well-structured relational database schema using SQLAlchemy and Alembic migration tool to achieve efficient data organization and retrieval.
- Developed critical API endpoints using Python and Flask to facilitate database interactions, resulting in improved application performance and maintainability.
- Implemented form validations to guarantee the integrity and security of user data, reducing the risk of errors, data breaches, and ensuring a smooth user experience.
- Architected the frontend Redux store structure with a focus on preventing muted state and eliminating data collisions, ensuring predictable and reliable DOM rendering

Petsy | (ReactJS, Redux, HTML5, Python3, JavaScript, Flask, SQLAlchemy, CSS3, PostgreSQL)   **[live](#)** | **[github](#)**
An online retail platform specializing in the sale of pet-related products.
- Leveraged Figma to design and lead the development of project wireframes, significantly contributing to the visualization and frontend development of the project.
- Demonstrated the ability to work autonomously and successfully implemented a complex search feature using Flask, SQLAlchemy, resulting in enhanced project functionalities and an improved user **experience**.
- Designed and developed a dynamic, responsive single-page application using React, creating reusable components to enhance the user interface and ensure an optimal user experience.
- Collaborated closely with a team member to resolve complex tag functionalities within a demanding 2-day timeframe, showcasing effective teamwork and problem-solving skills.
- Coordinated with the team to implement a streamlined Git and pull request process to prevent merge conflicts and optimize development workflow, substantially contributing to project debugging and overall success.

EXPERIENCE

INNOVATIVE PROJECT SOLUTIONS **- Project Engineer**   Mar 2021 - Nov 2021
- Conducted thorough quality assurance checks on project drawings, correcting design errors and discrepancies, leading to substantial cost savings and reduced potential legal liabilities.
- Proactively identified and addressed scope gaps to ensure thorough project scope coverage during project procurement, trained project interns, led the process of subcontractor bid solicitation, evaluation, and negotiation, leading to significant cost savings and ultimately, the project's successful procurement.

GIAMPOLINI **- Project Engineer & Project Engineer Supervisor**   Oct 2017 - Dec 2020
- Designed a digital purchase order generation and tracking system through Excel VBA MacroS, which enforced data validation, empowered users to manipulate and analyze data, and create custom user forms reports, and charts.
- Successfully resolved contract disputes, negotiated Change Orders for a better value, rejected unreasonable back-charges and accusations of delays by utilizing knowledge in contract law, resulting in significant cost savings.
- Managed and provided leadership for a multi-million dollar Design-Build OSHPD 3 medical building project, proposed engineering solutions that effectively mitigated potential project delays and additional expenses.

EDUCATION

- **App Academy** - *24 Week Full-Time Software Engineering Bootcamp, October 2023*
- **University of California, Berkeley** - *Master of Science in Civil Engineering, May 2017*
- **California Institute of Advanced Management** - *General MBA, May 2022*
- **Zhengzhou University, China** - *Bachelor of Science in Civil - Water Resources Engineering, June 2015*