

YI CHEN

SOFTWARE ENGINEER | PMP | MBA

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[LinkedIn](#)

[GitHub](#)

[Portfolio](#)

[Certifications](#)

SKILLS

- Javascript ES5/ ES6+, MERN Stack (React, React-Redux, Redux Toolkit, Express, MongoDB, Mongoose), HTML 5, CSS 3, Bootstrap, SCSS (Sass), UI / UX Design / Figma, jQuery, Node
- Python 3, Flask, Django REST framework (DRF), API testing (Insomnia, Postman), Sequelize, ORM (object-relational mapping), SQL / NoSQL Database, SQLite 3, MySQL, PostgreSQL, MS SQL Server, RESTful API, Amazon Web Services (AWS), Webpack, Firebase, Google Map API, Mocha, Jest, Cypress Testing Frameworks, JSON, JWT, middleware, TypeScript, Java, Visual Basics
- Git Version Control, Test-Driven Development (TDD), Object Oriented Programming (OOP), Data Structures and Algorithms, Agile Development Methodologies (Jira), Cloud Computing Basics, CDN (Content delivery network), Project Deployment (Heroku, Render, Cyclic), web performance optimization techniques

PROJECTS

Moment | (ReactJS, Redux, Python3, JavaScript, Flask, SQLAlchemy, Bootstrap, AWS S3, PostgreSQL, Render) [live](#) | [github](#)

Online social networking platform for sharing information, engaging in discussions, and fostering connections.

- Efficiently implemented AWS S3 integration to facilitate smooth multi-image uploads and updates for user posts, resulting in an enhanced user experience and strengthened data security. Refactored code in adhering to the DRY (Don't Repeat Yourself) coding principle.
- Designed a well-structured relational database schema using SQLAlchemy and Alembic migration tool to achieve efficient data organization and retrieval.
- Designed and developed critical API endpoints using Python and Flask to facilitate database interactions, resulting in improved application performance and maintainability.
- Designed and developed a dynamic, responsive single-page application using React, managing asynchronous API calls and creating reusable components to deliver an optimal 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, Postman)

[live](#) | [github](#)

An online retail platform specializing in the sale of pet-related products.

- Leveraged Figma for UI/UX Design and led 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 React, Flask, SQLAlchemy, resulting in enhanced project functionalities and an improved user experience.
- Engineered database models and integrated Flask form validations to uphold the integrity and security of user data, which minimized the likelihood of errors and data breaches, ensuring a secure and smooth user experience.
- Collaborated closely with a team member to develop, debug, and troubleshoot complex tag functionalities within a demanding 2-day timeframe. Demonstrated effective teamwork, debugging and problem-solving skills, and the ability to work under pressure.
- Coordinated with the team to implement a streamlined Git and pull request process to prevent merge conflicts and optimized development workflow, substantially contributing to project debugging and overall success.

Little Lemon API | (Python3, Django DRF, Djoser, Insomnia)

A RESTful API project for an online-based order management system

[github](#)

- Proficiently utilized Django REST framework to streamline API development, ensuring efficient serialization of database models, seamless data conversion and validation, and effective control over access permissions.
- Implemented advanced features such as search, ordering, filtering, and pagination within the APIs, optimizing overall performance and enhancing the user experience
- Utilized Djoser, a cutting-edge token-based user authentication library, to create API endpoints for user authentication and token generation, which enhances system security.
- Implemented automated testing processes utilizing Insomnia, a comprehensive API testing platform. Conducted thorough testing to ensure the seamless functionality of the developed APIs, ensuring a reliable and resilient system.

Y.CHEN Design | (JavaScript ES5/ES6, HTML5, CSS3, Cyclic, MailChimp API, Express)

A frontend project dedicated to UI/UX design for an online Designer Fashion Store

[live](#) | [github](#)

- Implemented robust form validations using JavaScript and regular expressions to ensure secure and accurate user input, enhancing the overall reliability and security of the system.
- Enabled Newsletter Subscription functionalities using JavaScript and integrated the Mailchimp API, demonstrating adeptness in working with third-party APIs.
- Designed and developed an interactive carousel by manipulating JavaScript DOM and integrated modern CSS styling to enhance user experience. This demonstrates proficiency in data structures and algorithms with JavaScript, along with a deep understanding of DOM/BOM.
- Utilized Express.js and Body-Parser for efficient page routing, showcasing strong backend development skills.

EDUCATION & CERTIFICATIONS

- **Meta Back-End Developer Professional Certificate** - *Currently In Progress (90% complete)*
- **Meta Front-End Developer Professional Certificate** - *February 2023*
- **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*

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

- Innovated 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.