

ERIC CHAI

(713) 560-1598 no8cai@gmail.com [Portfolio](#) [LinkedIn](#) [GitHub](#) Houston, Texas

Skills

Programming language: JavaScript, Python, C, Matlab

Methodologies tools: HTML5, CSS, ReactJS, Express, Sequelize, Flask, SQLAlchemy, SQLite, and PostgreSQL.

Projects

Atlantis Solo Project (Python, Flask, SQLAlchemy, ReactJS, HTML, CSS, SQLite, PostgreSQL, AWS S3, OpenAI)

[Live Site](#) | [GitHub](#)

An e-commerce website referenced Amazon where users can post products, purchase products, and search for products.

- Connected the Flask backend with AWS S3 for media storage, and reduced the loading time for products' images.
- Built a Dynamic landing page in ReactJS frontend, enhanced the user experience for exploring the website.
- Designed an intuitive UI with ReactJS, JavaScript, and CSS, optimizing the interaction between different features.
- Integrated an OpenAI backend API, exploring the possibility of Applying AI support to e-commerce websites.

Firestarter Group Project (Python, Flask, SQLAlchemy, ReactJS, HTML, CSS, SQLite, PostgreSQL)

[Live Site](#) | [GitHub](#)

A fund-raising website referenced Kickstarter where users can create projects, backed projects with purchase rewards.

- Search and filter through the projects and provide precise matching projects by applying customized algorithms.
- Dynamically calculating the total dollar amount for all the projects using JavaScript enhances the intuitiveness of the website.
- Efficient backend API building with Flask and SQLAlchemy improved the reliability of retrieving data from the frontend.
- Constructed a complex Redux store, increasing the re-render performance on the DOM page.

ECcoolBnb Solo Project (JavaScript, Express, Sequelize, ReactJS, HTML, CSS, SQLite, PostgreSQL)

[Live Site](#) | [GitHub](#)

A reality-sharing website referenced Airbnb that allows users to post renting properties, create reviews, and make bookings.

- Comprehensive constructed backend API, by using Express, increased the reliability of the backend server.
- Intuitive user UI design with React and CSS, allowing users to navigate through features with minimal learning time.
- Constructed a complex error handling system with JavaScript, catching most of the input validation on the frontend.
- Efficient Database Schema design, increasing the retrieving speed from Database.

Experience

Sinogeo E&P Services, Houston

Senior Geophysicist

Nov 2019 - July 2022

- Project management and collaboration with remote processing team members.
- Oil field evaluation based on the seismic images for the underground.

ION Geophysical Corporation, Houston

Geophysicist

April 2013 - Oct 2015

- Processed multiple 2D Seismic data projects for the Marine environment by applying a designed workflow based on individual cases.
- Designed workflow of applying high-resolution technology to 2D seismic data processing, enhancing the sharpness of resulting images while maintaining the processing time.

Petroleum GEO-Services, Houston

Geophysicist

Sep 2010 - April 2013

- Processed multiple 3D Seismic data projects for the Marine environment by applying a designed workflow based on individual cases.
- Seismic data analysis and seismic data processing script programming.

Education

App Academy, San Francisco, California,

Aug 2022 - Feb 2023

Immersive software development course with a focus on full-stack web development.

Texas A&M University, College Station, Texas

Master of Science in Geophysics

Sep 2008 - Dec 2010

Bachelor of Science in Electrical & Computer Engineering

Jan 2003 - May 2008

Publications

[1] R. C. (aka Eric Chai) and Y. Sun. [Seismic analysis using wavelet transform for hydrocarbon detection in paleo-karst reservoirs](#). SEG Expanded Abstract 30, pp.1052-1056, September 18-23, 2011, Proceedings of SEG International Conference, San Antonio, Texas, USA, doi:10.1190/1.3627385., 2011...