Wanzhen Li

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SKILLS

- **Programming Language:** JavaScript, MATLAB, Python, R, SQL
- **Web Development:** React, LitElement, TypeScript, Event-Driven Architecture
- **Cloud Computing:** AWS (S3, EC2, Lambda), Docker, Hadoop, Spark
- **Database/Data Warehouse:** NoSQL (MongoDB, DynamoDB), MySQL, PostgreSQL, DBMS Design
- **Others:** Simulink, Git, Figma, Power BI, Tableau, JIRA/Confluence
- **Certifications:** AWS Certified Solutions Architect – Associate

WORK EXPERIENCE

Synergies Intelligent Systems, Inc. Boston, MA

Software Engineer *Mar 2024 - Present*

- Mainly contributed to developing websites, focusing on front-end components built with **JavaScript**, while integrating AI-powered features such as a GPT-powered chatbot, a Stable Diffusion-based product mockup generator, and an automated quotation tool for machining parts.
- Designed and implemented front-end modules to enhance user experience, including file upload tools and interactive UI components, and collaborated with back-end services to call **APIs** for AI-driven functionalities.
- Worked closely with cross-functional teams, including product managers and designers, to ensure seamless integration of AI features into user-facing platforms, aligning technical implementation with business goals.

Data Analyst *Sept 2023 - Feb 2024*

- Integrated and cleansed financial data for Foxconn's Longhua factory, creating interactive dashboards to distill trends and actionable insights for decision-making. Developed advanced predictive **time-series** models (S-ARIMA, LSTM, Prophet) using **Python** to forecast financial outcomes and detect anomalies with up to 99.97% accuracy, aiding strategic planning and operational efficiency.

PROJECT EXPERIENCE

Automated Quotation for Machining Parts | JavaScript, React, Node.js, MongoDB, Python, Flask, Docker May 2024 - Present

- Implemented the front end using React for file uploads and user interaction and developed the back end with Node.js and Express to manage file operations, API communication, and metadata storage in MongoDB. Containerized the development and deployment environments with Docker.
- Built and deployed a Python-based Flask microservice using CADquery to parse 3D CAD files and calculate pricing, with secure file storage on a server-side file system and back-end-controlled access.

Picwizlee AI Product Photography Website | React, Next.js, Vercel, vast.ai Aug 2024 - Present

- Designed and developed a comprehensive AI-driven product photography platform, integrating React, Next.js, and server-side rendering to deliver an interactive, responsive UI. Built API routes to seamlessly connect the front end with AI-powered back-end processing.
- Deployed the front end on Vercel for optimized performance and utilized vast.ai cloud services to manage back-end processing for scalable AI-based image generation.

Solar Photovoltaic System Modeling and Simulation Using Simulink | MATLAB, Simulink Oct 2022

- Developed a detailed photovoltaic (PV) cell model in Simulink, configuring key parameters to simulate current-voltage (I-V) and power-voltage (P-V) characteristics under varying irradiance and temperature conditions.
- Conducted simulations to analyze PV cell performance across diverse environmental scenarios, validating model accuracy and providing data-driven insights for PV system design and optimization.

EDUCATION

Boston University Aug 2021 - Jan 2023

Master of Science in Applied Business Analytics (STEM) *Boston, MA*

Beihang University Aug 2013 - Jun 2017

Bachelor of Arts in German Literature *Beijing, China*