Bob Tianqi Wei

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Education

University of California at Berkeley, College of Engineering	Aug 2023 – Dec 2024
M.Des in Human-Computer Interaction	Distinguished Scholar, 3.66/4
Tsinghua University, Academy of Arts and Design	Aug 2019 – Jun 2023
B.A. in Industrial and Product Design	3.71/4

Technical Experiences

Frontend Engineer, Create, Inc. San Francisco, CA, Contract — Jul 2025 - Sep 2025

- Shipped high-fidelity marketing sites supporting the launch of *Anything*, Create's new AI app builder, collaborating closely with design and founding team: Site, Affiliate Program, Brand Resources
- Converted Figma specs into pixel-accurate, responsive React UI with TypeScript; established reusable components, fluid spacing/typography, and design-token–aligned styling for multi-breakpoint layouts
- Refined internal AI agent pipelines for *Anything*, designing prompts that translate user-submitted images into code
- Contributed to QA of an unreleased product line, focusing on UI quality and UX consistency

Research Engineer, Berkeley Institute of Design Lab, UC Berkeley EECS, Part-Time — Nov 2023 - Present

- Developed ArtiFactor, an AI-powered creative workflow platform integrating multi-agent orchestration, LLMs, and multimodal ML models to support intelligent content generation and analysis
- Designed a semantic knowledge base system with vector embeddings. Architected full-stack systems using React, Node.js, and Python Flask microservices, with real-time agent triggering, workflow automation, and Dockerized ML backends
- Collaborated with designers, engineers and researchers to bridge AI/ML capabilities with intuitive UX

Research Engineer, Morphing Matter Lab, UC Berkeley Mechanical Engineering, Contract — Feb - May 2025

Projects

PartSelect Chat Agent - AI Agent for E-Commerce Customer Support (React, Node.js, Pinecone) — Jun 2024

- Engineered a production-ready e-commerce AI agent using DeepSeek, React, and Node.js to support customer service
- Integrated Pinecone vector DB (1536-dim embeddings) enabling sub-500ms semantic search and compatibility checks
- Built intelligent query preprocessing and multi-modal response generation, handling part/model number recognition, troubleshooting, and step-by-step installation guidance
- Delivered a fully functional prototype with <3s response latency, <1% error rate, and full mobile optimization within 48 hrs

GAF Sales Intelligence Platform - AI Agent for B2B Sales Insights (Python, FastAPI, Streamlit) — Jul 2024

- Designed and implemented a modular data pipeline to scrape, process, and enrich public contractor data
- Built a role-based web dashboard with interactive map visualizations and CSV export, enabling sales teams to prioritize leads and tailor outreach strategies
- Developed robust backend APIs and database models, ensuring scalable integration, efficient data retrieval

Ekphrasis – AI Feedback Tool for Graphic Design Education (Jupyter Notebook, HTML, Python) — Aug 2024 - Jan 2025

- Designed an AI-powered interactive tool offering visual feedback to help students understand abstract design concepts
- Conducted user research and thematic analysis with 11 educators to identify language barriers in design critique
- Developed an Interface and a machine learning model to generate contextualized visual examples based on students' work
- Improved learning outcomes for novice designers through real-time, visual, and context-aware design aids

Illuminatio – Adaptive Smart Lighting with Biocentric AI (C++, Python, Raspberry Pi) — Jan 2023 - May 2023

- Created a biologically-informed smart lamp that adjusts light based on user rhythm and behavior
- Prototyped with Raspberry Pi, camera sensing, and servo-controlled light modulation. Created Rhino and AutoCAD schematics, fabricated custom aluminum mounts, and implemented dynamic scene transitions
- Explored user-in-the-loop adaptive systems for well-being and smart environments

Skills

Programming & Frameworks: Python, JavaScript (TypeScript), React, Node.js, Flask, Express
AI/ML & Data: LLM APIs, Prompt Engineering, CLIP, Vector Databases (Pinecone, SQLite), Docker, Git
Design & Prototyping: Figma, Adobe Creative Suite, Interaction Design, User Research, Rhino