Yvon Kim

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EDUCATION

University of California, Riverside (UCR) — *Riverside, CA*
B.S in *Electrical Engineering and Computer Science Concentration*, 3.7 — *Sep. 2022 - Exp. Jun. 2026*

PROFESSIONAL EXPERIENCE

SOUTHERN CALIFORNIA EDISON, — *Pomona, CA*
Transmission Line Engineer 1, — *Jun. 2025 – Present*

- **Designed an automation suite** to triage 30+ grid interconnection submittals, replacing a manual docs-heavy workflow with an interconnection control plane that reduced decision latency by 50%.
- Optimized engineering bottlenecks by developing Python-based processing tools that reduced data-entry tasks **from 8 hours to 10 seconds**, utilizing Pandas and multiprocessing for real-time analysis.
- Turned operational complexity into software by designing a data visualization tool for 3TB of transient stability data, allowing non-technical partners to identify grid patterns without running manual simulations.

HOMEBISTRO LLC, — *Riverside, CA*
Founding Engineer / Co-Founder, — *Feb. 2023 – Apr. 2025*

- Engineered a zero-to-one merchant portal using Ruby on Rails, React, and PostgreSQL enabling home cooks to launch licensed micro-restaurants with 1% of the traditional capital requirements ($100k vs $1k).
- Owned the **end-to-end product experience**, from wireframing UI/UX in Figma to implementing the backend logic for scheduling, menu management, and payment processing.
- Iterated via direct user feedback, **scaling to 20 beta users** and managing the deployment pipeline on AWS/Heroku to ensure 99% uptime during peak dining hours.

KIDS THAT CODE, — *Riverside, CA*
Teacher and Lead Instructor — *Dec. 2023 – Jun. 2026*

- Taught 100+ students daily, transitioning from a lead-focused teaching model to a **student-centered framework** that improved classroom engagement.
- **Designed and shipped 30+ hours** of introductory AI/Robotics curriculum, translating complex concepts like neural networks and CAD into digestible, project-based workflows for non-technical learners.

INERTIAL SCIENCE, INC, — *Newbury Park, CA*
Navigation Systems Engineer 1, — *Aug. 2022 – Sep. 2024*

- Developed internal tooling for signal processing that automated **15+ hours of manual data** cleaning per week using Python and the NumPy/Pandas stack.
- Bridge the gap between hardware and software by building **custom calibration interfaces** that streamlined the transition of IMU data from raw sensor output to production-ready navigation models.

PROJECTS

SIM42 SIMULATOR, *Simulates Human Society Using Parallel Compute* — *Completed in Mar. 2026*

- Built a distributed agent-based simulation that orchestrates 100+ LLMs in parallel to observe emergent social behaviors, using **LangGraph** for complex state management and model logic.
- Deployed a scalable backend on Google Cloud Platform (GCP), utilizing parallel compute clusters to handle high-concurrency API calls to LLM models.
- **Designed a real-time observability suite** to visualize agent interactions and societal health metrics using a complex prompting procedure during development.