

PAUL SONG

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EDUCATION

Harvard University

Bachelor of Arts, Computer Science & Minor in Economics

Cambridge, MA

December 2024

EXPERIENCE

Walmart Inc.

Bentonville, AR (July 2025 - Present)

Product Manager

- Driving development of core membership operations on 1Desk (React Native iPad application) — a Member Services Desk app modernizing legacy platforms — used across 600 US/PR clubs and powering ~50M annual member interactions and \$579M total desk revenue for Sam's Club's membership P&L.
- Owning the post-join member lifecycle roadmap — renewal, upgrade, member info edits, and intelligent member search — and integration with hardware peripherals (e.g. payment devices, printers, cash drawers).
- Hardening the platform's security and compliance posture: RBAC/authenticated manager override (~3,300 weekly override events, previously unaudited), Tap-to-Pay integration across payment flows, and session auto-logout to maintain wage-and-hour compliance for in-club associates.
- Partnering cross-functionally with Engineering, UX Design, Operations, Legal/Ethics & Compliance, multiple business stakeholders and field associates / club managers — validating releases "boots-on-ground" and coordinating critical deployments across chain during high-traffic events.

Product Management Intern

Bentonville, AR (June 2024 – August 2024)

- Automated 40M+ competitive price decisions annually, saving 100+ hours of spreadsheet work with a workflow that ingests and processes competitive analysis data through a Dynamic Price Engine to an execution interface.

Ultimate Kronos Group (UKG)

Lowell, MA (January 2024 – April 2024)

Data Engineering Intern

- Deployed 4 Python/SQL utility scripts to the production Azure Databricks workspace via Azure DevOps CI/CD pipelines to automate seed script generation & streamline catalog schema searching for UKG's Enterprise Data and Analytics team.

DEV @ Harvard Student Agencies

Cambridge, MA (August 2021 – February 2023)

Managing Director

- Oversaw \$230K P&L for HSA DEV, a Web/iOS development agency deploying bespoke technical solutions for startups, small businesses, and NGOs in the Greater Boston Area.
- Led a 5-person executive team and 20+ total staff across Engineering, Design, and Sales to deliver 21 projects.
- Managed client relations and conducted board reports with revenue forecasts and KPI analysis to ensure stakeholder alignment.

PROJECTS

ONSC Alumni Digitizer (onsc-alumni-project.vercel.app) – Developed a phone-first AI workflow for Ozark Natural Science Center to digitize ~15K handwritten alumni registration forms. Utilized on-device auto-capture, Claude vision, human-in-the-loop validation, and Google Sheets integration to convert paper records into searchable alumni data.

wy2z (wy2z.vercel.app) – Architected and engineered a fully autonomous multi-device plant-care system (Raspberry Pi 5 orchestrator, Jetson Orin Nano vision rig, ESP32 watering actuator, Supabase, Next.js) for a 5+ week deployment; cron-driven 4x daily photo captures feed a Claude VLM that returns structured JSON plant-health verdicts, closing the loop with a 5V watering pump and streaming all telemetry to a plant health-monitoring dashboard on Vercel.

SKILLS & INTERESTS

Skills: Agentic Coding & LLM/VLM Systems (Claude Code/Console/API), Edge Computing (Jetson/RPi/ESP32/Arduino), Python, TypeScript/JavaScript, SQL, React/React Native, Vercel, Supabase, Spark/Databricks, Google Cloud Platform, Azure Data Factory, DevOps & CI/CD

Interests: IoT and Autonomous Systems, Regenerative Agriculture, STEM Mentorship, Running, Reading Nonfiction, Hebrew