

Kevin Hoang

Software Engineer

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SUMMARY

Full-stack software engineer building production web apps, automation, and data tools with TypeScript, React, Next.js, Python, and PostgreSQL. Background in aerospace systems engineering and a Master of Science in Mechanical Engineering, bringing an engineer's rigor to testing, validation, and shipping software end to end.

SKILLS

Languages: TypeScript, JavaScript, Python, SQL, Swift, HTML, CSS

Frontend: React, Next.js, Vite, Tailwind CSS, shadcn/ui, Framer Motion, TanStack Query, PWA, IndexedDB

Backend & Data: Node.js, Express, FastAPI, Flask, Django, PostgreSQL, Supabase, Prisma, SQLAlchemy, Redis, BullMQ, pandas, NumPy

Infrastructure & Tools: Docker, Vercel, Git, Stripe, Plaid API, Claude API, Puppeteer, Selenium, Jest, React Testing Library, K6

EXPERIENCE

Engineer, Cyient 2024 – Present

- Build and improve automated systems that quickly close items and expedite close-out.
- Communicate with the team and customers to clear bottlenecks.

Mechanical Design Engineer, Collins Aerospace 2020 – 2022

- Designed and analyzed complex system functionality to significantly increase efficiency.
- Managed and communicated with a team of engineers to certify processes.

Aerospace System Engineer, Belcan 2017 – 2019

- Performed software testing across builds to confirm engine performance improved without compromising other systems.

PROJECTS

Real-Estate Transaction Platform, Founder & Full-Stack Engineer 2026

A full-stack product built from the ground up: pre-rendered marketing pages for speed and SEO, secure accounts, Stripe checkout, legally binding e-signatures, generated PDF documents, and transactional email, all backed by serverless edge functions. Runs on a fully containerized local stack that mirrors production.

Tech: TypeScript, React, Vite, Tailwind CSS, Supabase, PostgreSQL, Edge Functions, Stripe, Resend, pdf-lib, Zod, Docker

Marketing Automation SaaS, Founder & Full-Stack Engineer 2026

A multi-service SaaS that turns raw inputs into finished, on-brand media and publishes it on a schedule. Six containerized services (web app, job queue, headless-browser renderer, video renderer, scheduler and database) with subscriptions, OAuth sign-in, and AI-assisted copy.

Tech: Next.js, TypeScript, Prisma, PostgreSQL, Redis, BullMQ, Puppeteer, Remotion, Stripe, NextAuth, Claude API, Docker

Punch List, Creator & Full-Stack Engineer | punch-list-ten.vercel.app 2026

An offline-first business app for independent tradespeople: jobs, estimates, invoices and receipts that keep working with zero signal. Data lives on the device and syncs to the cloud when a connection returns; print-ready PDFs are rendered right on the phone.

Tech: React, TypeScript, Vite, IndexedDB, Dexie, Supabase, pdf-lib, PDF.js, PWA

Personal Finance Platform, Full-Stack Engineer 2026

A self-hosted app that replaces a yearly budgeting spreadsheet. Bank feeds sync automatically, transactions are cleaned and auto-categorized, and dashboards cover budgets, savings, and taxes. Deployed with Docker on a home server behind a VPN, with automated off-site backups.

Tech: Python, FastAPI, SQLAlchemy, Alembic, Plaid API, React, TypeScript, TanStack Query, Recharts, Docker

kevinhoang.co, Full-Stack Engineer | kevinhoang.co 2025

A multilingual, pre-rendered brand site for my real-estate business with a built-in CRM, lead capture, and analytics dashboards. 150+ commits of continuous iteration on performance, SEO, and conversion.

Tech: React, TypeScript, Vite, SSG, Tailwind CSS, shadcn/ui, Supabase, Framer Motion, i18next, Recharts

Algorithmic Trading Engine, Software Engineer 2025

A regime-aware swing-trading system that scans a stock and ETF universe daily, sizes and places orders through a brokerage API, journals every decision, and grades its own results each month. Built around a survivorship-bias-free backtesting harness: honest validation over flattering numbers.

Tech: Python, pandas, NumPy, PyArrow, Pydantic, APScheduler, Alpaca API, Matplotlib, Docker

EDUCATION

Certification in Software Engineering 2022 – 2023

Hack Reactor

Master of Science in Mechanical Engineering, Systems and Mechanics 2017 – 2019

University of Connecticut

Bachelor of Science in Mechanical Engineering 2013 – 2017

University of Connecticut