Julie Clarkson

AI Product Engineer

AI-native products and human-in-the-loop agent workflows

Available for contract engagements through Jacobus Company, LLC

Charlotte, NC and remote julie@julieclarkson.com julieclarkson.com linkedin.com/in/juliejclarkson
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AI product engineer who designs, builds, and launches AI-native products end to end, from discovery and UX through full-stack build, testing, pricing, and iteration, and wants to bring that to a product team. Brings 18 years of building web products for clients, a foundation in design and learning, including eight years of teaching and a master's degree in how people learn, and a human-in-the-loop AI agent workflow with approval at every step.

Experience

Product Engineer and Contractor 2008 to present

Jacobus Company, LLC, Charlotte, NC

- Design, build, and launch AI-native products end to end, including Degree Pathways (college and career exploration on public data) and the Investment and Retirement Scenario Labs (interactive financial education with commerce and licensing).
- Own the full product cycle, from discovery and problem framing through UX, full-stack build, model and tool selection, testing, pricing, launch, and iteration.
- Run AI QA panels and security scanning before every release. On the Scenario Labs, the first test cycle found 8 critical issues, and all were fixed before launch.
- Build with human-in-the-loop AI agent teams on a self-built development framework, where plans, standards, and decisions live in the repository, with approval at each phase.
- For 18 years, delivered websites and web products for small and medium-sized companies under written scopes, from custom builds to new features in existing codebases. Clients stayed for years and several returned for redesigns.

Webmaster, Web Development and Digital Systems 2001 to 2004

Converse College, Spartanburg, SC

- Built and maintained the college's primary website in code as part of the communications team, working with the Director of Communications, a designer, and a writer. Supervised one to two web staff.
- Received the All-Star Faculty Award. Our team earned multiple CASE awards, and our campus tour was featured on CampusTours.

Science Educator, Technology-Enhanced Learning 1993 to 2001

Various Schools and Programs, South Miami, FL

- Taught science and led a 6th-grade homeroom while earning an M.S.Ed. Ran the annual science fair and the overnight trip to Sea Camp in the Florida Keys.
- Brought laptops into daily instruction through Microsoft's Anytime Anywhere initiative and presented the work at Microsoft conferences.

How I work

- Design for how people learn and use products, within each client's time and budget, refined through testing.

Products and case studies are at julieclarkson.com.

Skills

AI product and agents	Human-in-the-loop agent workflows, AI agent teams for building and testing, evaluation loops and rubrics, Model Context Protocol (MCP), Claude, Claude Code, Codex, Cursor
Engineering	JavaScript, HTML, CSS, Tailwind CSS, Node.js and npm, Git and GitHub, terminal, Supabase (Postgres, pgvector), Firebase, Vercel, React (familiar), PHP and WordPress, and more
Product and UX	Product discovery, user research, problem framing, specs and build plans, information architecture, interaction design, design systems, web accessibility
Design tools	Figma, Photoshop, Canva, and more
Client engagements	Written scopes and estimates, statements of work, client communication, taking over existing sites, training and handoff, long-term site management, confidentiality and NDAs

Education

M.S. Ed., Reading and Learning Differences, University of Miami
Included two summers working with autistic children and tutoring children with learning differences.

B.A., Earth Science, Dartmouth College

Certificates in Google UX Design (Coursera) and Google AI for JavaScript Developers with TensorFlow.js (edX)

Community over the years

- Assistant Coach, JV Women's Lacrosse, Ardrey Kell High School, Spring 2026
- Science Olympiad Coach, NC Science Olympiad
- WordPress Lab Instructor, Tech Talent South
- Pro Bono Web Designer, Once Upon A Room
- Pro Bono Web Maintenance and Support, Fashionably Conscious
- Web Developer and Email Campaigns, Homeowners Association
- Art Education Volunteer, PTA
- Reading Tutor, University of Miami

Outside of work

Ran a marathon and several half marathons. Golf, pickleball, tennis, mahjong, travel, podcasts, reading, cooking, and walking dogs.