

Oren Mendelow

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UI/UX and Product Designer, Developer, Engineer

Skilled in digital and physical product design, full-stack software development, supply chain and manufacturing, and scalable systems. Proven success in translating ambiguous ideas into market-ready products across diverse platforms and bridging communication between users, designers, and engineers. Quick learner, effective communicator, culture promoter, and motivated worker.

Skills & Tools

Design & Product: UX/UI, interaction & visual design, wireframing, prototyping (digital & physical), design for manufacturing, Fusion 360, Figma, Adobe CC, Sketch, VCarve

Engineering & Development: Full-stack (Python, Java, C, SQL, Typescript, HTML/CSS, React, AngularJS, Ruby, GraphQL), REST APIs, Arduino/IoT, AI Prompt Engineering

Fabrication: 3D printing, laser cutting, CNC, PCB milling, product assembly

Management & Research: Agile, JIRA, roadmapping, stakeholder alignment, backlog triage, usability testing, user-centered design

Toolchains & Platforms: AWS, Git, Confluence, Shopify, Squarespace, SEO (SEMrush, Google Trends), analytics, media editing (Premiere, After Effects, Final Cut, Logic, Ableton)

Education & Certifications

Bachelor of Science in Computer Science, Minor in Entrepreneurship, Rutgers University, New Brunswick, NJ

May 2021

Certified Solutions Architect, Amazon Web Services

Professional Experience

[MENDELOW STUDIO](#), LLC | Product Design, Fabrication and Sales | West Orange, NJ (part-time, flexible)

2019 to Present

Conceive, design and launch unique consumer products and digital experiences, owning strategy, design, fabrication and market penetration.

- Designed, produced and sold 2k+ units of a [unique kitchen tool](#) in first few months post-launch and secured [retail placement](#).
- Create wireframes, physical prototypes, logo, brand identity, sizzle reels, and art for diverse clients on a freelance basis.
- Optimize manufacturing workflows and order fulfillment by mapping and leading production schedules with worldwide partners.
- Provide accessible work opportunities while scaling operations by employing individuals with developmental disabilities.
- Conceived "[Pomander Walk](#)" wall garden; optimized for production, hired fabricators, secured retail, and exhibited at trade shows.
- Crafted [Yurtle](#) brand identity & UI for community-focused event platform with AI suggestions; delivered keynote at RedwoodJS '23.
- Notable UI/UX freelance work includes [Pa+ched](#), a mental health application, and [Alto](#), a cross-platform music aggregation tool.
- Invented, manufactured, branded, and ran Kickstarter campaign for [Koala Boards](#), a revolutionary skateboard-backpack system.

CAPITAL ONE | Software Engineer | New York, NY

2021 to 2023

Software developer on Retail and Small Business teams at large financial services company.

- Clarified account onboarding processes for 60M+ small business customers by creating a new account tracker (Python, AngularJS).
- Reduced daily customer support calls by 400+ by enabling check image display in customer transaction history (Python, AngularJS).
- Improved task prioritization and developer efficiency by 20% by restructuring refinement process for product requirements (JIRA).
- Significantly minimized delays and dependency issues by synchronizing development cycles across teams on large feature releases.
- Helped 250+ engineers migrate databases using a custom-built data visualization and migration tool (Adobe Analytics, AWS).
- Enhanced and simplified interdepartmental error-handling systems through job tokenization and query functionality (Java, Python).
- Expedited new software developer onboarding through a custom onboarding platform (Confluence), adopted by numerous teams.

NO TRAFFIC | Engineering Intern

Summer 2019

AI and machine learning startup specializing in road traffic management & optimization

- Developed traffic optimization algorithms. Instituted analytics dashboards to visualize performance data in real-time.

MAILPALS | Open Source Contributor | Remote

2024 to Present

Open-source friends & family newsletter platform promoting genuine communication and interaction.

- Ideate, source, and develop user-valued features such as color themes, custom question banks, sorting options, and enterprise tools.

THE FRISCH SCHOOL | Head Entrepreneurship Teacher | Paramus, NJ

2024 to Present

Top NJ Private High School with over 1000 students offering a robust curriculum including electives such as Entrepreneurship.

- Instructed 6 daily classes for 100+ 9-12th grade students. Independently developed progressive four-year curriculum covering market & competitor analysis, business models, finance & accounting, design, prototyping, branding, investor pitching, and more.
- Taught industry-leading tools such as Figma, Fusion 360, Google Suite (Trends, Forms, Docs, Sheets, etc.), Arduino, and AI solutions.
- Leveraged cutting-edge technologies to formulate a unique and interactive course load, leading to improved student engagement.
- Organized guest speakers with expertise across diverse industries, exposing students to inspirational individuals and stories.
- Hosted capstone project competition for students to create, develop, and pitch their business ventures built from the ground up.