

Charlie Ramus

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EDUCATION

Boulder High School

High School Diploma, accelerated STEM track

Boulder, CO

Expected June 2028

EXPERIENCE

Ostiara

Founder / Solo Developer

May 2026 to Present

Boulder, CO

- Built a neighborhood targeting engine that scores US Census block groups from 0 to 100 for door to door home services teams, joining ACS5 demographic data to TIGER/Line geometry across five weighted signals with per vertical presets and an offline fixture fallback
- Engineered a closed feedback loop on Supabase where reps' logged door outcomes flow back into live territory rankings, and shipped the marketing site, admin dashboard and a Clerk Organizations teams and roles system with row level security

Content Creator & Community Builder

Independent

2025 to Present

Remote

- Grew an architecture focused building community past 600k+ impressions by designing original builds and producing tutorial content for a global audience

Liberty Puzzles

Media Manager & Assembly Assistant

2026 to Present

Boulder, CO

- Assembled puzzles and led customer tours for a high end puzzle company while helping run its social media accounts and producing photo and video content

PROJECTS

Backtrace | TypeScript, Leaflet, Bayesian Modeling, PWA

- Built an offline first field instrument that fuses wildfire pattern indicator bearings, each with its own angular uncertainty, into a Bayesian probability field for a fire's origin, rendering credible regions instead of a false precision point given the documented 103 degree indicator error
- Implemented the statistics and geodesy from scratch in the browser, including a von Mises grid posterior, an outlier mixture and on device WMM2025 magnetic declination matching NOAA to within 0.01 degrees, with court ready GeoJSON, KML and PDF exports

MyLifeInARepo | Next.js, React, Recharts, TypeScript

- Architected a local first life dashboard that parses daily Markdown journal files through one frozen data contract, enforcing a null versus zero rule so charts show missing days as true gaps rather than fabricated data, alongside a personal finance module that imports bank CSVs and categorizes transactions entirely in the browser

VaultDNA | Obsidian Plugin, TypeScript

- Built an Obsidian plugin that encodes a knowledge base into synthetic DNA sequences under real DNA storage constraints such as homopolymer run limits and GC content biasing, then decodes them back losslessly

WElandscape | HTML, CSS, JavaScript

- Designed and shipped a live marketing site for a Boulder landscaping business, hand coding every SVG asset and an accessible vanilla JS contact modal to WCAG AA contrast across three responsive breakpoints

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, HTML/CSS, SQL, Markdown/MDX

Frameworks & Libraries: Next.js, React, Tailwind CSS, Leaflet, Recharts, Radix/shadcn

Tools & Platforms: Git, Clerk, Supabase, Cloudflare Pages, Chrome Extensions API, Vite, Vitest, Figma, Adobe Lightroom

Concepts: Design systems, customer discovery, Bayesian modeling, sensor fusion, geospatial data (Census ACS, TIGER/Line), PDF generation

Relevant Coursework: AP Computer Science, AP Micro & Macroeconomics, AP Language, Advanced Chemistry, Advanced Biology, accelerated Precalculus

LIKES

Skiing, climbing and biking of all kinds, sailing, photography and videography, architecture, mountaineering, cars and boats, YouTube video essays