Ian Barrie

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Education

Colorado State University Fort Collins, CO
B.S. Computer Science, Concentration in Networking and Security Expected May 2028
Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming (Java), C++ Fundamentals, Linear Algebra, Probability and Statistics, Calculus
Certification: AWS Certified Solutions Architect, Associate (in progress)

Honors

- **Winner, NASA Hackathon Challenge:** NASA & USDA Land Use Challenge at CSU Hackathon 2026, sponsored by AWS and Databricks
- Selected to present the winning project to NASA and USDA stakeholders in Washington, D.C.
- Received a written recommendation from a NASA AI project lead

Projects

Aurum | **NASA Hackathon Winner** April 2026
Geospatial AI Data Pipeline | *Python*, *Databricks*, *AWS S3*, *SageMaker*, *XGBoost*, *Next.js*

- Won the NASA and USDA hackathon challenge with a 4-person team in 24 hours by building an AI pipeline on NASA satellite imagery that forecasts corn yields 4 to 5 months before the USDA's own estimate
- Built the data layer end to end, fusing 5 incompatible sources (satellite imagery, climate, soil, drought, historical yields) into an AWS S3 data lake of 20,000+ county-year records across 263 counties
- Raised accuracy from a 0.271 R^2 baseline to 0.789 by pairing XGBoost with a KNN uncertainty model, and caught a data leak hours before presenting by rebuilding validation to block data unavailable at forecast time

Gone Phishin' May 2026
Anti-Phishing Chrome Extension, *Live on Chrome Web Store* | *TypeScript*, *React*, *Next.js*, *PostgreSQL*

- Owned the full lifecycle solo, from design to production: browser extension, backend service, database schema, and a caregiver dashboard with phone-based device pairing
- Caught brand-impersonation phishing that URL reputation services clear as safe by designing a link-analysis heuristic scoped to keep false positives low

brkt battle 2026
1v1 Tournament Platform on Solana, *Live* | *TypeScript*, *Next.js*, *Node.js*, *PostgreSQL*

- Launched a live platform with real-time match state, brackets, a leaderboard, and prize payouts in SOL, building both the React front end and the Node.js and PostgreSQL back end

Jellyfish In development
Custom Linux Distribution | *Nix*, *NixOS*, *Linux*, *systemd*

- Reduced a full OS install to one reproducible build that ships as a bootable ISO by defining the kernel, NVIDIA drivers, compositor, and a desktop shell written from scratch as a Nix flake

Experience

Palm Supplements, *Founder* 2022 – 2024

- Built and ran a DTC supplement brand across Shopify, TikTok Shop, and Instagram, owning product, suppliers, branding, and paid social

DID Records / BRILL, *Co-Founder and Recording Artist* 2024 – Present

- Co-founded an independent label connecting U.S. and European artists and a touring music duo; manage releases, bookings, and logistics

Leadership & Activities

Pi Kappa Alpha, Colorado State University, *Founding Father* 2025 – Present

- Helped charter a new chapter from zero, handling recruitment, events, and treasury

DevNet, CSU Software Development Club, *Member*

Skills

Languages: Python, Java, C++, SQL, TypeScript, JavaScript, Rust
Data & Cloud: Databricks, AWS (S3, SageMaker), PostgreSQL, XGBoost, Jupyter, Docker
Systems & Tools: Linux, NixOS, Git, React, Next.js, Node.js