

Jack Harris

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Projects

maxout.art — creator and sole developer

TypeScript, React, Supabase, Cloudflare

- Training platform for competitive NES Tetris: a frame-accurate replica of the NES engine verified against real console behavior, a puzzle trainer with thousands of graded positions, and real-time ranked matches against players and calibrated bots, rated with Glicko-2.
- Console capture: reads a capture-card feed from real hardware via OCR, records the game, and generates coaching reports on stacking mistakes.
- TypeScript monorepo — React SPA, offline puzzle-generation pipeline, Supabase backend, deep end-to-end test suite.

gambdle.net — creator and sole developer

JavaScript, Supabase Edge Functions

- Daily casino game where every player competes on identical seeded hands across blackjack, Ultimate Texas Hold'em, and roulette; global leaderboard with percentile ranks, rule modifiers rotating on a 27-day cycle, a playable archive, and spoiler-free share cards.
- Server-authoritative scoring and daily seeding via Supabase Edge Functions.

Experience

Financial Analyst — Arizona Department of Economic Security, Phoenix, AZ *March 2025 – present*

- Financial and analytical contact for the Division of Developmental Disabilities and the Governor's Council on Developmental Disabilities: budgets, trend analysis, and stakeholder reporting.
- Uses SQL and Excel to turn expenditure and revenue data into actionable analysis, including research on the financial impact of policy and funding changes.

Business Systems Analyst — Public Consulting Group, Phoenix, AZ

July 2022 – August 2024

- Performed independent verification and validation (IV&V) of state government software projects across their full lifecycle, assessing work against RFPs, contracts, and regulatory standards — principally the Arizona Child Support Enforcement Modernization (AZCARES) project, plus QA/IV&V on Florida PALM.
- Analyzed Azure DevOps data to verify schedule adherence and vendor statements; wrote independent test cases to validate progress and surface defects.
- Reported risks, issues, and findings with concise recommendations that improved project timeliness and reduced setbacks.

Business Analyst — Integrate, Phoenix, AZ

January 2021 – July 2022

- Built client-facing analytics and visualizations of marketing campaign data in Tableau, PowerBI, and Excel; presented results and forecasts in stakeholder meetings.

Skills

- Languages: TypeScript/JavaScript, Python, SQL, Java, C++
- Web: React, Node.js, Supabase (Postgres), Cloudflare Pages/Workers, HTML/CSS, Git
- Data: data analysis, Certified Data Management Professional, Excel, PowerBI, Tableau
- Process: Agile, Waterfall, IV&V

Education

Arizona State University — BS, Computer Science

December 2022