

# Nick Brodeur

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## Experience

- Founder / Developer, Challenger Fantasy** Jun 2025 - Present
- Architected a high-concurrency realtime data pipeline using automated web scraping and scheduled cron jobs to ingest and process combat sports data with minimal latency.
  - Engineered a multi-tier caching strategy across the database, API, and application layers for minimal query latency.
  - Developed a serverless drafting engine designed for horizontal scalability, allowing the platform to handle rapid spikes in user traffic during live events.
  - Implemented complex data modeling to manage calculated and derived statistics, ensuring data consistency across a React web dashboard and a React Native mobile application.
  - Optimized backend performance by implementing efficient indexing and data retrieval patterns to support realtime updates for thousands of concurrent users.
- Fullstack Developer, Mamo.bot** Feb 2025 - Jun 2025
- Engineered a secure authentication and onboarding pipeline, focusing on identity verification and data encryption.
  - Developed a custom Telegram OAuth integration allowing users to link external social accounts for automated identity verification and account security.
  - Streamlined user acquisition by optimizing the onboarding flow, reducing friction in the multi-step registration and wallet-linking process.
- Fullstack Developer, Tribes Inc.** Oct 2024 - Mar 2025
- Built a persistent realtime chat system using WebSockets, supporting rich media features including reactions, image/GIF processing, and dynamic link previews.
  - Designed a cross-platform notification engine utilizing Firebase Cloud Messaging (FCM) and the Browser Notification API to deliver instant alerts for price volatility and social activity.
  - Integrated automated Telegram alerts by developing an OAuth-based authorization flow.
  - Contributed to the "eliza" AI Agent Framework (Open Source), specifically engineering Telegram integration capabilities to expand the framework's communication layer.
  - Developed responsive, reactive UIs for mobile and desktop.
- Independent Developer** Jan 2024 - Oct 2024
- Developed multiple web3 and AI-based projects with live user transactions and grants received.
  - Designed an SDK for ENS's largest service provider, Namestone, later adopted as their official SDK, earning \$1K.
- Consulting Analyst, Deloitte Consulting** Aug 2022 – Jan 2024
- Directed client-facing technical discovery and resource modeling for global initiatives, leveraging Excel modeling and Python-based data analytics to optimize resource allocation across large projects.

## Projects

- Jelly Beans** 2024
- Built a crypto prediction game that has engaged over 300+ unique users and facilitated 1400+ transactions.
- Optimism GovScore** 2024
- Created a web app that ranks Optimism DAO delegates based on voting patterns and behavior.
  - Received a \$50K grant from Optimism for its contribution to governance.

## Education

- University of Tennessee, Knoxville, BS in Business Analytics & Statistics** Aug 2018 – May 2022
- Studied information tech, data mining, and programming fundamentals (3.9/4.0 gpa)