Emmanuel Cortes Castaneda

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EDUCATION

Arizona State University Tempe, AZ

Bachelor of Science in Computer Science *August 2020 – May 2024*

PROJECTS

SaveSlot - Video Game Social Platform | *React, TypeScript, Bun, Hono, Supabase, Docker* — May 2025
- Developed a full stack web application for game discovery and tracking, integrating IGDB API to provide real time data on new releases, upcoming games, and comprehensive game details.
- Implemented automated scheduling and smart caching with Bun runtime to refresh the game database and update stale entries on demand, optimizing API usage and data accuracy.
- Built user authentication and library management system using Supabase and PostgreSQL, enabling users to organize collections across owned, wishlisted, and completed games with community reviews.

Baller Props - NBA Research Tool | *React, TypeScript, Python, FastAPI, Supabase, Docker* — Dec 2024
- Developed a full stack sports betting research tool for NBA and WNBA prop analysis, scraping real time data from PrizePicks, Underdog, and DraftKings to aggregate odds across multiple sportsbooks.
- Built a custom FastAPI backend with Python to calculate statistical analysis including L10 averages, hit rate percentages, and head to head matchups using historical season data dating back to 2023.
- Implemented sortable and filterable data tables with React and TypeScript, enabling users to compare odds and discover optimal prop lines, reducing research time by 30%.

Yard Ledger - Invoice Manager | *React, TypeScript, Firebase, Tailwind* — Jan 2024
- Developed a full stack invoice management system for a landscaping business, featuring client tracking, invoice history, and automated PDF generation using react-pdf/renderer, reducing processing time by 75%.
- Implemented real time database synchronization and user authentication with Firebase, ensuring secure access and persistent records of all invoices and pricing data.
- Built dynamic form validation and automatic price calculations with React and TypeScript, streamlining the invoice workflow for nontechnical users.

Coin Expo - Crypto Tracker | *React, TypeScript, Node.js, Express, Supabase* — May 2024
- Developed a cryptocurrency tracking platform with real time price updates, market cap data, and 30 day historical price charts, integrating CoinMarketCap and CoinGecko APIs for comprehensive market coverage.
- Built a Node.js backend with Express to aggregate data from multiple APIs, implementing fuzzy matching logic to ensure accurate coin identification and data consistency across sources.
- Implemented user authentication and watchlist functionality with Supabase, enabling registered users to track personalized coin portfolios.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, HTML, CSS
Frontend: React, Next.js, Tailwind CSS, daisyUI, shadcn, Material UI
Backend: Node.js, Bun, Express.js, Hono, FastAPI
Databases: PostgreSQL, Supabase, Firebase
Tools & Platforms: Git, Linux, Docker, AWS, Digital Ocean, REST APIs