

Zach Melendez

Full-Stack Software Engineer

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Summary

Software engineer with 5+ years of experience, now on the CBSSports.com front end team at Skydance. Previously built live game data tools and a unified login for CBS sports and news brands. Known for ownership and attention to detail, from data model through deploy.

Experience

Skydance (formerly Paramount)

May 2023 – Present

Full-Stack Software Engineer

- Moved CBSSports.com Fantasy Football (30M views in 30 days) and player pages (10.5M) to the new design system.
- Led a graphics automation service that has exported 6,830 sports graphics from 240 templates across 8 leagues.
- Rendered graphics as server-side SVG via BullMQ, tagging each by team, player, and game before CDN upload.
- Unified login across CBS Sports, SportsLine, CBS News, 247Sports, and CollegeSportsLive.
- Scaled CBS Sports login to 14.6M requests in 30 days at 99.97% HTTP success and 26 ms median latency.
- Built live game data tools that alert ops when a vendor feed drops and let them enter plays or switch vendors.
- Added bulk corrections for full Saturday college slates, cutting a single fix from about 30 minutes to about 5.
- Designed Cosmo SuperGraph subgraphs in TypeScript, backed by PostgreSQL, MongoDB, and Redis.
- Shipped with Docker, AWS CDK, Kubernetes, and Argo CD, covered by Jest and Playwright tests.

Henkel Corporation

April 2021 – May 2023

IoT Development Engineer

- Built Dockerized Python services that pulled sensor data off industrial equipment into Azure IoT Hub and Event Hub.
- Prototyped remote equipment management and high-speed data acquisition alongside contracted developers.

Projects

Budget Analyzer

- Self-hosted dashboard that imports bank and credit card CSVs, removes duplicates, and auto-categorizes spending.
- Built with Next.js, Prisma, and PostgreSQL in Docker, with idempotent imports and fuzzy merchant grouping.

Education

University of Connecticut

Bachelor of Science • 3.7/4.0

Mechanical Engineering, Minor in Mathematics

August 2017 – May 2021

Skills

Languages: TypeScript, JavaScript, Python, SQL, HTML/CSS

Frontend: React, Next.js, Tailwind CSS, Material UI, Mantine, SVG, Jest, Playwright

Backend & Data: Node.js, Fastify, Express, GraphQL, FastAPI, PostgreSQL, MongoDB, Redis, BullMQ, Okta / OAuth

Cloud & DevOps: AWS (Lambda, ECS, S3, CDK), Azure IoT, Docker, Kubernetes, Argo CD, CI/CD

AI: Cursor, Claude Code, OpenAI and Anthropic APIs