



# YER-BERATO WILSON

SENIOR SOFTWARE ENGINEER

## PROFESSIONAL SUMMARY

Senior Software Engineer with 13+ years building front-end-leaning full-stack products using TypeScript, React and Next.js alongside Python/FastAPI, Kotlin and Node. At Target I led the front-end for an enterprise 3D asset management app, built internal AI platforms (Chatbot as a Service, Agent Builder using RAG and LangGraph), and drove LLM/agent initiatives that contributed to >\$50M in new revenue. I ship end-to-end features, design clean, usable UIs in partnership with product and growth teams, and own cross-functional delivery—comfortable working in high-velocity, AI-first environments and mentoring engineers to raise team impact.

## CONTACT

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## EDUCATION

### Web Design/Cyber Security

University of Maryland Global Campus,  
Jul/2025

### Applied Computing

University of Arizona, Dec/2023

### Interactive Design A.A.S

Hennepin Technical College, Dec/2012

## SKILLS

TypeScript



React



Next.js



Front-end development



UI/UX Design



## ADDITIONAL SKILLS

JavaScript, HTML, CSS, Redux, Redux-Saga,  
APIs, Node.js, Express.js

# EXPERIENCE

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## Senior Engineer

Target

Aug/2020 - Present

- Owned front-end development and shipped end-to-end features for internal platforms and customer-facing products (React, TypeScript), taking high degrees of ownership from design through production.
- Led front-end architecture and implementation for Gallery, an enterprise 3D asset management application — designed a Redux-Saga state system, improved CI/CD, and evolved the product from MVP to a scalable platform used across the org.
- Built and delivered an internal Chatbot as a Service (React, LangGraph.js) that enabled teams to self-serve RAG-enabled chatbots and accelerated AI adoption across business units.
- Designed and productionized an Agent Builder and related internal AI platform (Python, FastAPI) to enable API-driven creation and deployment of agentic services for dozens of teams.
- Collaborated closely with product, data, backend and growth stakeholders to define solutions, design UX improvements, and ship integrations that solved real user workflows and internal needs.
- Engineered a full-stack AI negotiation agent that optimized vendor pricing and product mix, directly contributing to over \$50M in new revenue.
- Developed a trend-detection AI agent for the internal advertising system that increased associated product sales by over 16% and informed store-level merchandising decisions.
- Architected a high-throughput backend pipeline (Kotlin, Python, Kafka) to process thousands of 3D assets daily and re-architected search using a Kafka→Elasticsearch pattern, reducing search latency from minutes to under 2 seconds.
- Led technical workshops for 100+ engineers and partnered with security teams to establish LLM security best practices, including prompt-injection mitigation.
- Mentored 5+ junior engineers and interns, providing technical guidance, code review, and career coaching to raise team capability and retention.

## Manager, Front End Engineering

Ameriprise Financial Services, Inc.

Feb/2019 - Jul/2020

- Owned front-end engineering for multiple products, translating complex business requirements into technical roadmaps and delivering shipped features in partnership with product and program teams.
- Designed and built a standardized component library and internal development tools that increased developer productivity and accelerated feature delivery.
- Managed the end-to-end agile delivery lifecycle, facilitating Scrum ceremonies and establishing a consistent bi-weekly release cadence to improve predictability.
- Defined and enforced code quality standards — introduced automated testing and peer-review practices that reduced critical production bugs year-over-year.
- Mentored and coached front-end engineers through regular 1:1s and performance feedback, fostering continuous improvement and professional growth.
- Bridged communication between technical teams and business stakeholders to streamline workflows and ensure on-time delivery of priority features.



## Developer

### Robert Half Technology

Jul/2017 - Feb/2019

- Led full-cycle development and delivery of a mission-critical Inventory Fulfillment web application for Post Consumer Brands, automating manual processes and improving order fulfillment accuracy by over 25%. Worked closely with designers to build design-accurate front-end code. Lead front-end development for developers.
- Served as lead consultant and hands-on engineer for a Fortune 500 financial services client Ameriprise Financial, delivering scalable, secure applications that translated complex requirements into production software.
- Acted as technical lead on Agile project teams — driving milestones, coordinating cross-functional work, and ensuring on-time delivery of high-quality code.
- Mentored and coached junior engineers on best practices, code reviews, and design patterns to raise team-wide code quality and consistency.
- Tech I used:
- Meteor.js for full stack development. React for front-end development. Wordpress for CMS development. CI/CD (Jenkins, Github Actions) for pipeline coordination, Riotjs for front-end development, Redux for state management, Redux Saga for side effect management for state management.



## Developer II

### Project Ricochet

Mar/2017 - Jun/2017

- Delivered end-to-end Drupal websites for high-profile clients (including UC Berkeley and Manager Tools), managing requirements, implementation, and deployment to improve user engagement.
- Collaborated in a 12-person Agile team to translate client needs into robust technical solutions, ensuring projects were delivered on or ahead of schedule.
- Developed custom Drupal modules and themes to extend functionality and improve UX across multiple projects.
- Refactored legacy code and optimized database queries, reducing average page load times by 66%.
- Provided ongoing maintenance and support, resolving an average of 12 support tickets per week to maintain site availability and client satisfaction.

## Interactive Developer

Upshot Agency

Mar/2016 - Mar/2017

- Led front-end and full-stack development for the 2016 'Raise Summer' sweepstakes (Constellation Brands - Corona), supporting 350,000+ unique entrants and sustained high traffic loads.
- Engineered an anti-fraud entrant-signature system that prevented scripted entries and preserved client value (approx. \$750,000 in potential losses avoided).
- Built high-traffic interactive applications using modern JavaScript frameworks (Meteor, Express) focused on reliability and responsive UX under heavy load.
- Maintained and enhanced legacy PHP (Laravel) and C# applications to ensure operational stability and deliver critical feature updates.

## Full Stack Javascript Developer

Robert Half Technology

Dec/2015 - Jun/2020

- Implemented secure social login flows using Angular, Express, and OAuth 2.0, integrating with Twitter and Facebook to streamline onboarding and increase account creation by 15%.
- Architected and launched a full-stack custom profile system serving 10,000+ monthly unique visitors to enable personalized portfolios and content sharing.
- Contributed core features as a MEAN-stack developer for a high-traffic social media platform, supporting video uploads and scaling front-end functionality.
- Collaborated on development and marketing initiatives to grow user base and improve key engagement metrics through targeted product work.

## Front End Developer

Electric Citizen

Sep/2015 - Dec/2015

- Delivered end-to-end development and launch of 5+ high-profile Drupal websites (including University of Minnesota), managing requirements, implementation, and deployment with 100% client satisfaction.
- Built custom Drupal features that improved engagement and streamlined content workflows for non-technical staff.
- Led integration of multiple third-party APIs within an Agile team to deliver a complex portal for Manager Tools that achieved 99.9% uptime post-launch.
- Improved front-end performance using modern JavaScript techniques and lazy loading, reducing page load times by 40% and increasing Lighthouse scores.
- Created a scalable, component-based design system adopted across college websites, accelerating feature development and enforcing brand consistency.



## Interactive Developer

gHost Productions, Inc

Aug/2013 - Sep/2015

- Established the Interactive Developer role and improved the WordPress site through profiling and asset optimization, resulting in an 80% improvement in site load times.
- Designed and delivered a virtual surgery training application (GreenSock.js, Knockout.js) used to train thousands of medical professionals, focusing on intuitive interactive flows.
- Introduced VR (Oculus Rift) and developed a multi-modal VR surgery simulator (Unity) for immersive training experiences.
- Built a mobile app for Spineology to showcase surgical tech at expos, increasing post-expo engagement and sales calls by 40%.
- Engineered 'Konjure', an internal media planning and sales tool (Meteor.js) enabling real-time project pricing and boosting early sales engagement.



## Web Designer

Avallo Creative & Web Development

Dec/2013 - May/2013

- Designed and developed dynamic websites using HTML, CSS, and JavaScript to enhance UX and functionality via a proprietary framework.
- Delivered a custom site for a construction client that drove a 40% increase in sales and helped secure repeat business and state contracts.

## PROJECTS

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## ContentIQ

Agentic social-media proof-of-concept that orchestrates AI agents for strategy, content creation, and scheduling for SMB Instagram accounts. Emphasized end-to-end UX and orchestration reliability to drive steady follower growth and engagement, proving product-market fit and a clear path to a 2026 SaaS launch.

This project is built using NextJS. It uses LangGraph agents to generate social media copy. Vercel's AI SDK is used for it's flexibility in managing streams an structured output. It uses OpenAI's web search grounding to conduct online research for topics to post, relevant hashtags for content, current events, and to do content research based on personas. This project uses a mixture of gemini-2.5 flash, gemini-2.5 pro and gpt-4o-mini models to achieve it's results. <https://contentiq.app>

## ResumeCraft

Intelligent agent system that evaluates resumes against job descriptions and delivers ATS-friendly, tailored recommendations. Focused on simple, usable UI flows that reduce application time and improve interview success by automating formatting, keyword optimization, and personalization for non-technical users.

For the front-end, this project uses NextJS along with the Vercel AI SDK to simplify usage of structured outputs, streaming responses and tool usage (google search and OpenAI web search grounding). The project uses GPT-5, GPT-5-Mini, and Gemini-2.5-flash to power the agents. It uses the agentic framework, KaibanJS for NextJS backend-based agentic work (extracting information from job urls for resume comparison, writing strategic summaries that include Resume and Cover Letter Data, as grounding for the LLM).

The Backend uses FastAPI to conduct online research of a position and uses ATS\_Optimization agents to ensure that Resumes and Cover Letters meets each job descriptions requirements and surfaces the correct skills. The agents are written using Google's ADK framework. Resume and User Profile data is stored in Postgres as well as ChromaDB to be used as a RAG-source for the Multi-Agent Resume and Cover Letter writing process.

The app also uses a custom multi-agent workflow to create fun designer themes for resumes based on uploaded images and prompts from the user. The agents write pug-templates, use tailwind-css, and then pull in Google fonts to create custom designer themes for resumes.

## LookRepo

End-to-end, zero-human-intervention print-on-demand brand built on a LangChain pipeline that automates design generation, product creation, and fulfillment. Integrated generative image/text models with e-commerce and fulfillment APIs to reduce manual overhead and accelerate time-to-market for new SKUs.

This project uses Shopify's React-based front-end framework, Hydrogen deployed to Shopify's servers. The app used an express-based backend with Langchain.js to create new products, price them, get designs (via dalle-2 openai api) and create shirts with the designs via print on demand service, Printful's api. This project was a fully-working proof of concept for building an autonomous eCommerce store with generative ai tools. The project used github actions and cron to run scheduled tasks for the creation of new products. All payment processing used Shopify's payment processor.



## CoFlo

AI-native music production tool with a multimodal interface that generates soundkits, album art, and metadata from text or video prompts. Prioritized rapid prototyping and downloadable assets to help producers iterate faster and transition the product toward a commercial SaaS/VST workflow.

This project uses gemini-2.5-pro to analyze the content of an uploaded video and uses that content to write a description for musical soundkits to be used in the production of digital music. Vercel's AI SDK is used to then convert the description into a structure json object that describes several sounds in a list of JSON documents. The JSON documents are used as prompts in a batched call to elevenlabs service (and eventually a copy of Stable Audio Open 1.0 hosted on replicate) where their descriptions are then used to generate sounds. All of the sounds are then packaged into a Zip file and stored in firestore with their descriptions for download as a soundkit. From the CoFlo application.

The agentic workflow was built entirely upon LangGraph for the multi-turn, multi-agent workflow (video analysis agent, soundkit description agent, soundkit structure agent, soundkit production agent, etc) and then used elevenlabs service and stable audio generative ai model to produce the sound.

NextJS is used as the front-end.

## **Target: Chatbot as a Service**

Internal self-service platform enabling teams to deploy RAG-enabled chatbots with a front-end that prioritizes developer ergonomics and UX. Accelerated AI adoption across the organization by reducing time-to-production for conversational features and making LLM-driven workflows accessible to non-specialist teams.

This project uses NextJS as the Chatbot template. The Nextjs application is written using Jinja2 templating and cookiecutter. We created an internal app that allowed users to write their system prompts, choose their configurations (model, temperature, frequency penalty, top p, etc) and enabled users to create upload document for ingestion into our RAG as a service platform, allowing for custom-grounded responses.

Once submitted, the NextJS template file pulls their configuration and replaces all of the jinja template variables with their data. This is then deployed to our Application platform and a new repo is created with their custom Chatbot ready for them to build on top of.

## **Target: Agent Builder**

API-driven internal toolchain for building and productionizing agentic services and custom AI agents. Delivered reliable deployment workflows and reproducible RAG integrations to enable teams to own end-to-end agent lifecycles with minimal engineering overhead.

This project uses a FastAPI application template with Jinja2 templating and cookie cutter. The agent framework used is Google ADK. We created a front-end that allowed users to generate configurations that include their model configurations (model, temperature, frequency penalty, top p, etc), write their system prompt, and forms for writing their own HTTP and RAG tools. Users could for example write a support agent that uses their documentation in RAG and has access to CRUD services through a custom HTTP tool. The suite of tools and the system prompts is then pulled into the FastAPI template during the CI/CD process where it's then deployed to our application platform as a ready to use, authenticated rest api.

## **Target: Gallery 3D Asset Repo**

Enterprise 3D asset management product evolved from MVP to a scalable platform. Built a Redux-Saga front end, CI/CD improvements, and a high-throughput backend pipeline processing thousands of 3D assets daily; re-architected search (Kafka→Elasticsearch) to cut search latency from minutes to under 2 seconds, significantly improving end-user productivity.

### **GhostProductions: Konjure**

Internal media-planning and sales web tool that let visitors configure 3D video projects and receive real-time pricing. Designed for clarity and conversion, the interface streamlined quote generation and project planning, increasing site engagement and early sales.

### **DepuySynthes: Hip Replacement Sim**

Interactive educational training application used to train thousands of medical professionals. Focused on intuitive interactive flows and high-fidelity simulation to support effective learning and scalable training outcomes.

## **VR Botox Injection Sim**

Multi-modal VR surgical simulator combining Unity and custom hardware to create immersive training for plastic surgeons. Paired novel hardware with focused UX to improve hands-on skill development in a simulated environment.

## **Corona Beer 2016: Raise Summer Sweepstakes**

High-traffic sweepstakes platform engineered to support 350,000+ entrants with robust anti-fraud entrant-signature protection. Built for scale and reliability under heavy load to preserve contest integrity and prevent scripted-entry losses.