

# Isaac Bythewood

Senior Solutions Architect with two decades of experience building across the full stack, from DevOps and server infrastructure to AI agent workflows, leading teams through demanding delivery schedules in highly regulated environments.

## RECENT EXPERIENCE — See LinkedIn for more

### Craftmaster Furniture — Senior Solutions Architect

Furniture Manufacturer — JULY 2024 - CURRENT

- Leading modernization of legacy IBM iSeries infrastructure to a modern Ubuntu, PostgreSQL, and Django stack.
- Built an in-house 3D furniture viewer with full fabric draping across 1,000+ fabrics and real-time customization, replacing costly third-party solutions at a fraction of the price.
- Rebuilt internal and external portals with AI-driven insights and modernized reporting, reducing time spent by sales and marketing teams on legacy systems.
- Redesigned company websites with modern responsive design, improved performance, and reduced attack surface by consolidating platforms and syncing data, saving hundreds of man-hours every market.
- Built customer-facing APIs for real-time pricing and catalog data, cutting time to market for new products.

### Gryphos Creative — Head of Web Development

Full-Service Marketing Agency — APRIL 2023 - JULY 2024

- Migrated all websites and services to a more secure and cheaper hosting solution with zero downtime.
- Developed multiple custom e-commerce websites for unique companies with unique requirements and strict regulations.

### VanNoppen Marketing — Principal Software Engineer

Full-Service Marketing Agency — JUNE 2010 - APRIL 2023

- Managed, developed, and launched multiple projects in parallel for a wide variety of companies.
- Integrated projects with numerous platforms including HubSpot, Facebook, Instagram, and Google services.
- Managed multiple hosting environments including AWS, Heroku, and Linode (Docker).

## RECENT PROJECTS — See LinkedIn for more

### 3D Furniture Viewer — Full-Stack Development, 3D Engineering

Craftmaster Furniture — JULY 2024 - CURRENT

- Built a fully in-house 3D furniture customization system with real-time fabric draping across 1,000+ materials using Three.js and Django.
- Eliminated dependency on expensive third-party 3D vendors, delivering the solution at a fraction of the cost.

### Portal & Reporting Modernization — Solutions Architecture, Full-Stack Development

Craftmaster Furniture — JULY 2024 - CURRENT

- Migrated internal and external portals from a legacy IBM iSeries system to a modern Linux, Django, and PostgreSQL stack.
- Integrated AI-powered reporting and insights, replacing outdated reporting workflows and reducing time spent by sales reps and sales and marketing teams.

## Senior Solutions Architect

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## LINKS

isaacbythewood.com

linkedin.com/in/ibythewood

github.com/overshard

## SKILLS

Solutions Architecture

Full-Stack Development

AI Agent Workflows

DevOps & CI/CD

Linux Administration

Container Orchestration

Data Visualization

Browser Automation & Testing

API Design

Infrastructure as Code

Web Scraping & Analytics

## TECHNOLOGIES

Python, JavaScript, CSS, HTML, Django, Flask, Next.js, React, PostgreSQL, Redis, Docker, Linux, Playwright, Webpack, Three.js, Chart.js, Anthropic SDK, Pandas, LangChain, PyTorch, Hugging Face Transformers

## EDUCATION

Virginia Tech, 2008 - 2012

Computer Science