

# David Nixon

## Creative Technologist | Automation & AI Innovation

Atlanta, GA | [dwnixon@gmail.com](mailto:dwnixon@gmail.com) | [davidwnixon.com/creative](https://davidwnixon.com/creative) | [GitHub](#) | [LinkedIn](#)



## Summary

Creative technologist with expertise in developing scalable web applications, automation, and AI-driven experiences. Proven track record leading cross-functional teams to deliver high-impact solutions for IBM's internal and client-facing projects, including Watson Health and WebSphere Portal. Adept at integrating emerging technologies to enhance performance, user experience, and deployment efficiency. Recognized as a Senior Technical Staff Member (STSM) at IBM, driving innovation in cloud-native applications, AI, and automation.

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## Technical Skills

### Front-End Development

Vue.js, Nuxt.js, React, Next.js, Tailwind CSS, JavaScript, HTML, CSS, SCSS, npm, yarn, pnpm

### Back-End Development

Node.js, Express, PHP, REST API Design, OpenID Connect, OAuth, Secure API Endpoints, PostgreSQL, Db2, CouchDB, Cloudant

### DevOps & Cloud

CI/CD (GitHub Actions, Jenkins, Travis), Docker, Kubernetes (Code Engine), IBM Cloud, AWS, Infrastructure Automation, Cron Jobs

### AI & Game Development

SDL2, AI-driven Automation, Interactive Experiences, PS5 Controller Integration

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## Professional Experience

### IBM – Creative Developer (2020–Present)

- Designed and developed an **AI-powered racetrack** to showcase IBM's AI capabilities, using **SDL2** to process real-time input from a **PS5 game controller**. Open-sourced components at [IBM SDL2 Game Controller](#).

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- Designed deployment of cloud-native applications on IBM Cloud, optimizing performance, scalability, and cost efficiency. Contributed to **React** and **Godot** code for interactive experiences deployed at [IBM Activations](#), enhancing user engagement and digital storytelling.
- Developed and managed **serverless functions** for event-driven applications using IBM Cloud Functions.
- Automated CI/CD pipelines using **GitHub Actions, Jenkins, and Travis**, reducing deployment times by **80%**.

### IBM – Senior Front-End Developer (2018–2020)

- Led front-end development teams to build internal web applications for IBM Marketing stakeholders.
- Developed **Vue 3 applications** with reusable components, state management (Vuex/Pinia), and optimized performance.
- Translated **UI/UX designs from Figma** into interactive, accessible front-end interfaces.
- Integrated **RESTful APIs** with data caching, error handling, and client-side optimizations.
- Automated deployment workflows using **CI/CD tools**, ensuring consistent, high-quality releases.

### IBM – Senior DevOps Engineer (2016–2018)

- Automated deployment of **event marketing web applications on IBM.com**, improving security, reliability, and speed.
- Managed **CI/CD pipelines** using **Travis and Docker**, streamlining deployment and minimizing downtime.
- Designed and implemented **containerized applications** with **Docker and Kubernetes (Code Engine)**.
- Automated infrastructure provisioning in **IBM Cloud**, reducing manual intervention by **95%**.
- Monitored application performance using **Instana**, enhancing operational efficiency.

### IBM – Senior Software Engineer (2010–2016)

- Served as **Lead Developer for WebSphere Portal**, supporting clients including Wells Fargo, Brown Brothers, ADP, and Amtrak.
- Led development of **IBM WebSphere Portal's first cloud-based SaaS offering** on SoftLayer.
- Designed migration and installation tools, collaborating directly with Fortune 100 clients.
- Presented as an **SME at WebSphere Portal conferences**, sharing expertise on best practices.

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## Projects & Open Source Contributions

### Event Content Curation

- Built a **full-stack application using Vue and Node.js**, integrating PostgreSQL for data management.
- Implemented **CI/CD pipelines** for automated testing and deployment on IBM Cloud.

### Client Journey Collaboration Tool

- Designed an **architecture enabling clients to review plans for on-site engagements**, accelerating deal closures.
- Leveraged **Docker and Code Engine (Kubernetes)** for deployment and **Cloudant/CouchDB** for NoSQL data storage.

### Open Source Contributions

- **Lead Contributor:** Carbon Vue Components
  - **Member:** Call for Code (Linux Foundation)
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## Certifications

- **Senior Technical Staff Member (STSM)** – IBM
  - **Data Privacy Advocate** – Credly
  - **Enterprise Design Thinking Practitioner** – Credly
  - **Open Source Strategic Committer** – IBM
  - **C++ Gold Level** – HackerRank
  - **SQL Bronze Level** – HackerRank
  - **Linux Shell 100%** – HackerRank
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## Education

### Bachelor of Science in Computer Engineering

*Auburn University*