**Shawn Becker – Full-Stack Developer**

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**PROFESSIONAL SUMMARY**

Full-Stack Developer with 20+ years delivering solutions for Fortune 500 companies

using AI-driven automation, LLM-powered applications with RAG pipelines, and scalable

web applications. Expert in modern JavaScript frameworks (Vue.js, Node.js), Python,

AI/ML stack (LangChain, vector databases), and cloud platforms (AWS).

**PROFESSIONAL EXPERIENCE**

**Full-Stack Developer, Spexture**, Lehi, UT  **(**2019 – Present)

Developed web applications and automation solutions for Fortune 500 clients using modern JavaScript frameworks, Python, and cloud technologies.  
  
• Modern AI Stack: Architected RAG pipeline using LangChain, Chroma DB vector database,

and OpenAI embeddings; implemented agentic framework with prompt engineering and function

calling for intelligent automation and semantic search.

**Key Achievements:**

• Adobe: Developed Python admin tools managing SEO servers

• Fannie Mae: Developed automated financial reporting pipeline using AWS Glue and Redshift

• The Cigna Group: Engineered cybersecurity credential automation with Python and CyberArk Vault

• Warner Bros: Built unified customer data platform using Segment CDP and Python REST APIs

• Angel Studios: Developed CNN-based analytics using PyTorch on AWS SageMaker to identify profitable movie scenes

• NuSkin: Built Vue3/Vuetify registration system with improved UX

**Software Developer,** SeniorLink / Vela, Boston, MA  (2017 – 2019)  
Architected enterprise data warehouse and worked with cross-functional team of 8 developers, analysts, and QA engineers for healthcare management.

**Key Achievements:**

• Designed dimensional star schema processing warehouse using AWS Aurora/PostgreSQL

• Built high-throughput data pipeline using Kinesis, Lambda, PySpark, and EMR

• Delivered executive BI reports using Redshift and Tableau

**Full-stack Developer, ClipFile, Newton Center, MA** (2011 – 2017)

Developed scalable content curation platform from concept to 50,000+ active users. Built innovative content discovery algorithms and co-authored multiple patents.

**Key Achievements:**

• Built scalable platform using SpringBoot, jQuery, and DynamoDB

• Co-authored 3 patents for content affinity algorithms

**Software Developer,** Sierra Vista Group, Boston, MA (2002 – 2011)

Developed enterprise software solutions across entertainment, retail, healthcare, and cybersecurity verticals for major brands.

**Key Achievements:**• Coca-Cola International: Built inventory optimization system using SQL Server and Windows Mobile 5  
• Medical Services Company: Developed vendor selection platform using SQL Server  
• Intrusic: Developed cybersecurity packet analysis system using BSD Linux and C++

• AMI Music: Implemented royalty tracking and payments system using FileMaker and Oracle

• Rowe International: Enhanced jukebox security platform using Java/JSP

**EDUCATION**PhD, Media Arts & Sciences, Computer Vision/Computer Graphics  
Massachusetts Institute of Technology, Cambridge, MA (1990-1997)  
PhD Dissertation: "Vision-assisted modeling for model-based video representations"

MS, Computer Science, Medical Imaging/Computer Graphics  
**Brigham Young University**, Provo, UT (1987-1990)

Master’s Thesis: Interactive measurement of three-dimensional objects using a depth buffer and linear probe.

BS, Design Engineering Technology, CAD/CAE/CAM  
**Brigham Young University**, Provo, UT (1983-1987)  
Senior Project: Voxel-based Editing and Visualization System for Ford Studio 2000X.

**E-CERTIFICATIONS ● PUBLICATIONS ● PATENTS ● PROFILES**

Certifications: [linkedin.com/in/shawnbecker/details/certifications](https://www.linkedin.com/in/shawnbecker/details/certifications)

Publications: [independent.academia.edu/shawnbecker](https://independent.academia.edu/shawnbecker)

Patents: [patents.justia.com/inventor/shawn-c-becker](https://patents.justia.com/inventor/shawn-c-becker)

Profiles: [linkedin.com/in/shawnbecker](https://www.linkedin.com/in/shawnbecker) | [spexture.com](http://spexture.com/) | [github.com/sbecker11](https://github.com/sbecker11)

**Core Competencies**

* Frontend: JavaScript (ES6+), Vue.js, React, HTML5, CSS3, Bootstrap, Tailwind CSS, Vuetify, TypeScript, jQuery, Responsive Design, Cross-browser Compatibility, SPA, SSR, Django, ATG Dynamo
* Backend: Node.js, Express.js, Python, Java, SpringBoot, REST APIs, FastAPI, Redis, GraphQL, API Design, OpenAPI, Swagger, Microservices Architecture, Lambda, AirFlow, EMR, PySpark, Amazon MQ, SNS, Event Bridge
* Machine Learning & AI: LangChain (Agents, RAG, Chains), Vector Databases (Chroma DB, Pinecone), OpenAI Embeddings, n8n, PyTorch, Keras, CNN, NLP, LLM Integration, Agentic AI, Prompt Engineering
* Database: PostgreSQL, MySQL, MongoDB, DynamoDB, Database Integration
* Security: Authentication/Authorization, Session Management, Mutual/Two-way TLS/SSL Authentication
* Testing: Jest, PyTest, unit test, JUnit, Selenium, JMeter, Mock, Coverage
* Tools & Practices: Linux, Git, Webpack, Vite, npm/yarn, CI/CD, Semantic Versioning, Web App and Package Manifests, Form Validation, JSON, AJAX
* Analytics & Visualization: Data Analytics, Three.js, Observable.js, DataDog, Matplotlib, Plotly, Tableau
* Machine Learning & AI: LangChain, n8n, PyTorch, Keras, CNN, NLP, LLM Integration, Agentic AI
* Cloud & DevOps: AWS (Glue, Redshift, SageMaker, Lambda, EMR), CI/CD, Jenkins, GitHub Actions, Docker
* Security & Compliance: HIPAA/GDPR, SSL/TLS, CyberArk, FHIR, PET Compliance
* Data Engineering: ETL/ELT Pipelines, PySpark, PostgreSQL, Data Modeling, Dimensional Design