

Dustin Bovee

FULL STACK SOFTWARE ENGINEER

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• [LinkedIn](#) • [GitHub](#) • [Portfolio Site](#)

TECHNICAL SKILLS: Qiskit, TensorFlow, Pytorch, MLflow, Keras Sequential API, Model Prediction Pipelines, NumPy, Matplotlib, Pandas, Scikit-learn Metrics, Hugging Face Transformers, Python, SQL, PostgreSQL, SQLAlchemy, Sequelize, Node.js, Express, Flask, Flask-SocketIO, WebSockets, RESTful APIs, JavaScript, React, Redux, HTML, CSS, Responsive Design, Docker, Cloudinary API, Unit Testing, Pytest, Mocha, CI/CD, E-Commerce, Git, AWS, Linux, React Router, Vite, Model Deployment.

EXPERIENCE

Software Engineer • Contract

VAS Dynamics LLC • Granger, IN | [Link](#)

09/2025 – Present

- Delivered exceptional **full-stack web design** with **well documented code** and built core **software architecture**.
- Built **custom forms** that feature **user uploads**, **Google Auth**, **CAPTCHA**, and custom **email automations**.
- Designed a **multi-role secure administrative dashboard** with multi-functionality including **analytics**.
- Led end-to-end **E-Commerce system architecture** supporting dynamic pricing, authenticated user pipelines, freight rate-quoting APIs, inventory controls, cloud media optimization, and 300+ tests in production deployments.
- Translate **complex client requirements** into clear technical goals, milestones, and execution plans, **coordinating staff engineers**, managing priorities and timelines, mitigating risks, and **driving projects through delivery**.

Lake Life Services LLC • Three Rivers, MI | [Link](#)

10/2024 – 05/2025

- Resolved API and plugin conflicts while contributing to frontend development within a **WordPress ecosystem**.
- Assisted in **marketing and analytics automation**, optimizing keyword strategies, conversion tracking, and performance insights using **Google Tag Manager** and **data-driven copy techniques**.

PROJECTS

QUANTUM MAZE SIMULATION | [GitHub](#)

• *Qiskit* • *NumPy* • *ImageIO* • *Matplotlib*

- Architected a **quantum simulation engine** that evolves **state vectors** to model **interference-driven traversal**.
- Generates grid/polar/3D/hypercube mazes, overlays solutions, and compares against **quantum diffusion**.
- Delivered a visualization + artifact pipeline with **Qiskit circuit/QASM export** for **quantum hardware-ready** runs.

SNOW DASH CHRISTMAS 2025 | [GitHub](#) | [Live](#)

• *React* • *Flask-SocketIO* • *Adobe*

- Shipped a real-time mobile-first **multiplayer game prototype** with low-latency rooms and **16-player support**.
- Built **host-controlled session flow** for structured sessions including ready states and round transitions.
- Architected multiplayer network with **WebSockets** covering room lifecycle, **input streaming** and **live state sync**.

ARCANA ACADEMY | [GitHub](#) | [Live](#)

• *Flask* • *SQLAlchemy* • *GSAP* • *Docker* • *Cloudinary*

- Built a creator-first RPG platform for asset management with full crud functionality for spells, swords, potions and player profiles with **Cloudinary**-hosted media and validation.
- Implemented a **turn-based combat engine** with action points, AI turns, and session recovery to **demo gameplay**.
- Crafted an animated **GSAP** experience with **CTA modal** and custom **cursor/background effects** for polish.
- Containerized the stack with **Docker** and production-ready **build pipeline** for deployment, enforced upload-type checks and unique filenames for **media safety**.

TRADE TOAD | [GitHub](#) | [Live](#)

• *Pandas* • *Scikit-learn* • *Recharts* • *WebSockets*

- Implemented **ML price prediction** service using **Scikit-learn**, **NumPy**, **Pandas** that drives buy/sell flags on charts.
- Wired in **RESTful API** routes to handle data requests and responses sent to the defined **relational database**.
- Integrated live **crypto market data** using **Polygon REST** with **Coinbase Advanced Trade WebSockets**
- Added **Pytest** and **Vitest/react testing lib** for automated fullstack testing to ensure **quality assurance**.
- Built **NFT Trading Lab** that proxies **OpenSea** supporting collection browsing, and **price parsing** for assets.

EDUCATION

Coursera / IBM • *Deep Learning & Neural Networks with Keras / AI Engineering pathway*

Completed 12/2025

Coursera / IBM • *Machine Learning with Python / AI Engineering pathway*

Completed 08/2025

App Academy • *Full Stack Software Engineering*

Completed 05/2025

Grow With Google • *Digital Marketing & e-commerce*

Completed 01/2024

Glen Oaks Community College • *Associates of General Studies (Transferable)* • *Centreville, MI*

Completed 05/2023