

Dustin Bovee

FULL STACK SOFTWARE ENGINEER

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• [linkedin](#) • [github](#) • [personal site](#)

TECHNICAL SKILLS • Python • JavaScript • React • Redux • HTML • CSS • Node.js • Express • Flask • SQL • SQLAlchemy • Sequelize • PostgreSQL • Docker • Render • RESTful APIs • Unit Testing • Mocha • Debugging • Databases • DS&A • Responsive Design • OOP • Data Visualization • SDLC • Data Analytics • Data Science • Predictive Analysis • Cloudinary • Data Cleaning • API Data Extraction • CRM Integration • Continuous Development • NumPy • Matplotlib • Pandas • Scikit-learn • Machine Learning

EXPERIENCE

Software Engineer • Contract - Freelance

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

09/2025 – present

- Delivered exceptional **full stack web design** with **well documented code** and built core **software architecture**.
- Adhered to clients frontend **wireframes** to style and deliver custom **React** components and styles with **pure css**.
- 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**.
- Oversee **technical architecture and implementation decisions**, ensuring scalable, secure and maintainable solutions that aligned with business objectives, client requirements and long-term product strategy.
- 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

SNOW DASH | [Github](#) | [Live](#)

• **React** • **Flask-SocketIO**

- 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 networking with **WebSockets** covering room lifecycle, input streaming and live state sync.
- Integrated a modular pixel-art **asset pipeline** for rapid seasonal reskins and visual clarity.
- Engineered a high-performance **canvas rendering pipeline** with **dynamic camera/zoom** and **sprite asset management** to keep gameplay smooth on mobile and desktop.

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](#)

• **Polygon API** • **Coinbase Websockets** • **OpenSea** • **Re Charts**

- Implemented **ML price prediction** service using **scikit-learn, numpy, pandas** to place buy/sell flags on candle/line charts with confidence. Exposed trained predictions via **Flask API** with a heuristic fallback.
- 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 • *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