

# Dustin Bovee

## FULL STACK SOFTWARE ENGINEER

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

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**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

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### Software Engineer • Contract - Freelance

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

09/2025 – present

- Provided exceptional **full stack web design** with **well documented code** and built core **software architecture**.
- Adhered to client's 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 an **administrative dashboard** with loads of functionality including **analytics** and **measurement**.
- Engineered a **Python made web-scraper** for testing and **researching competition** with secure data pipelines.
- Created a Blog Editor for creating **SEO** friendly blogs much easier and implemented a feature that allows admins to create and store blog content to the db using plain text or html, css and javascript code safely and easily.

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

10/2024 – 05/2025

- Resolved API conflicts and assisted with the front end development in **WordPress**.
- Assisted in **automating systems** for optimal website and marketing performance by custom **keywords** and **copywriting** methods and utilizing **google's tag manager**.

## PROJECTS

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**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 with full crud functionality for spell, words, 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** landing experience with **CTA modal** added 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

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**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