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 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 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 technique**s.

PROJECTS

SNOW DASH | Github | Live   •React •Flask-SocketIO
- Shipped a real-time mobile first **multiplayer game prototype** with low-latency rooms and **16-player suppor**t.
- 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**