
MATTHEW T. C. BOYEA

📞 913.203.2484 ✉ spam@mboyea.com 🌐 mboyea.com 🐙 github.com/mboyea

SOFTWARE ENGINEER

Highly organized and leadership-oriented software engineer. Improving the quality and accessibility of computer technologies in education, commerce, and manufacturing since 2019.

- **Front-End Web Development**
HTML, CSS (Sass), JavaScript (TypeScript, React, Vue, Svelte, Solid, D3.js), WebGL (GLSL)
 - **Back-End Web Development**
Node, Python (Flask)
 - **Desktop App Development**
Java, C# (Unity), C++ (SDL2, SFML), Assembly
 - **GUI & HMI** responsive design, accessibility (ADA, WCAG)
 - **Devops** Linux (Arch, NixOS, Ubuntu, Alpine), Shell Scripts (Bash), Makefile, Docker, CI/CD IAC (Nix, AWS SAM, GitHub Actions)
 - **Database Administration**
SQL (Postgres), ORM (Python SQLAlchemy)
 - **Project Methodologies**
Agile (Scrum, Kanban), Jira
 - **QA** Unit Testing (Test Driven Development), Postman
 - **Digital Marketing** Product Placements, Calls to Action, Marketing Funnels, SEO
 - **Embedded Systems**
Schematics (Cars, 4 Wheeler), Robotics (FANUC TP, Arduino)
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WORK HISTORY

Self Employed for *Connect Webworks* 09/24 - Present
Created [Lacuna CMS](#) to cut web costs by 80% and boost page speed by 10x compared to WordPress.
Prototyped a [VPN server](#) and a [Minecraft server](#) that were both shelved.

Programmer I for *AAON* 05/24 - 9/24
Responsible for software integration, logistics solutions, and product testing (QA) for a new PCB manufacturer.

- Trained AI models to identify & flag product defects.
- Negotiated tech to purchase from subcontractors.
- Generated work instructions and issue reports.
- Trained employees on new technologies.

Software Engineer Intern for *Smart Warehousing LLC* 05/22 - 05/23
Created cross-platform third-party logistics (3PL) webapps to improve warehouse operations.

- Prototyped an interactive map for [Smart Visibility](#) to visualize warehouse order data in real-time.
- Contributed to the UI of software that guides pick and place operations for warehouse employees.

Robotics Education Researcher for *Fort Hays State University* 03/21 - 12/22
Organized a case study to demonstrate the benefits of project-based learning in university robotics curriculum. Presented findings to 100+ attendees at SACAD.

Robotics Consultant & Programmer for *NeySEA LLC* 06/21 - 05/22
Programmed a FANUC R-2000iB robot arm to wash mud off vehicles before an automatic car wash, eliminating the need for manual labor. The prototype paid for itself within 8 months of operation.

Frontend Web Developer for *Webcom Resources LLC* 01/19 - 04/19
Improved online visibility of 4 local businesses and governing agencies by designing websites with strong SEO and effective marketing funnels using Wordpress.

EDUCATION

Bachelor of Science in Computer Science at *Fort Hays State University* 08/20 - 12/23
KAMS Certificate of Completion at *Fort Hays State University* 08/20 - 05/22
High School Diploma at *Pleasant Ridge High School* 08/18 - 05/22