MATTHEW T. C. BOYEA

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FULL-STACK 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)

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.
- Generated work instructions and issue reports.
- Negotiated tech to purchase from subcontractors.
- 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