

Mike Bros

Full-Stack Software Developer

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Summary

Pragmatic full-stack developer with over 4 years of experience architecting and scaling high-impact backend systems, billing pipelines, and internal platforms. Known for turning loosely scoped ideas or problems into robust, production-ready solutions under tight constraints and across cross-functional domains.

Deep expertise in Laravel, Vue, MySQL, with a strong emphasis on test-driven development, maintainability, and efficient developer experience. Disciplined and self-motivated with a proven ability to lead mission-critical projects remotely while pursuing full-time education. A collaborative problem solver and systems thinker who bridges the gap between business needs and technical execution with clarity and ownership.

Experience

Roof Maxx

Senior Technology Specialist / Software Developer

Remote — July 2021 to Present

- Led technical planning, test automation, and team mentorship around best practices and system architecture.
- Built a complete two-way SMS/MMS system with live updates via Pusher, handling over 3.5 million texts at one-fifth the cost of the evaluated third-party solutions.
- Created an internal policy platform (PAWS) used by corporate staff and dealers, collecting over 10,000 policy acknowledgments.
- Integrated QuickBooks, BlueSnap, Armatic, and Katana within tight vendor constraints, aligning business logic across incompatible systems.
 - Architected weekly leads billing processing \$15.5M+ in marketing charges, replacing static estimates with dynamic spend matching to reduce loss margins.
 - Developed an automated monthly billing system for dealer tech stack fees, dynamically calculating charges based on selected platform, and integrating real-time usage data from Google Workspace and Chili Piper APIs to bill overages from the base plan accurately.
 - Rebuilt product ordering pipeline from manual process to automated Katana/HubSpot integration, scaling to 1,200+ high-value orders.

Roof Maxx

Technology Specialist

Remote — June 2020 to July 2021

- Provided full tech support for 250+ active dealerships and corporate users.
 - Created the company Help Center and LMS, developed training video content, and implemented improved onboarding workflows.
 - Built a dynamic email signature interface with an editable logo and fields used by every employee and dealer organization-wide.
 - Overhauled our warranty system, trusted to process over 50,000 closed jobs since. The updated version includes features that make the system a fully self-service, error-resilient workflow that guides dealers in resolving data issues and ensures complete, accurate information for every job warrantied.
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Projects

Neptune Homelab

Enterprise-grade infrastructure platform with comprehensive documentation and DevOps philosophy framework

[bros.ninja](#) | [infra-report.bros.ninja](#)

- Architected production homelab on XCP-ng hypervisor with GPU passthrough, Docker orchestration, and automated infrastructure reporting via n8n workflows using custom API services.
- Implemented secure public access through Nginx reverse proxy with SSL/TLS, Tailscale mesh VPN, and multi-layer routing for 20+ services including Jellyfin, N8N, MinIO S3, and custom APIs.
- Built comprehensive DevOps toolchain with infrastructure-as-code approach, automated monitoring, and AI-ready context engine for natural language infrastructure management.

WGU Capstone Project

Board Game Rating Prediction

[github.com/Mike-Bros/WGU-Capstone](#)

- Final project for B.S. in Computer Science, exploring board game data to predict user ratings.
- Built multiple machine learning models using Python and Scikit-learn within a self-documented Jupyter Notebook.
- Analyzed features like mechanics, themes, and player count; achieved modest predictive accuracy above random.

Drone Summer Camp

Founder & Instructor – KING TeC Robotics

[airvuz.com/user/king-tec-drone-camp/videos](#)

- Created and led Minnesota's only UAV summer camp for 7th–12th grade students.
- Designed hands-on curriculum for drone assembly, programming, and safe flight operation.
- Empowered students to engage with real-world STEM through a one-of-a-kind experience.

Folder Markdown Combiner

Obsidian plugin built in TypeScript to merge markdown files in bulk, with support for directory-

aware context, timestamping, and prompt-optimized structure.

github.com/Mike-Bros/folder-file-combiner

Where The Heart Is

Mortgage affordability calculator with real-time rate comparisons and budgeting breakdowns

github.com/Mike-Bros/WhereTheHeartIs

Originally built in Python, later rewritten with Laravel and Vue. Personally used to help purchase my home.

Hyper Tally

Lightweight Laravel + Vue app for fast, error-free *board game scorekeeping*. Mobile-friendly UI optimized for repeat use.

github.com/Mike-Bros/hyper-tally

Skills

Languages: PHP, JavaScript/TypeScript, Python, SQL, Bash, HTML/CSS/SCSS, C/C++, Java, Ruby

Backend: Laravel, Node.js, REST APIs, WebSockets, MySQL/PostgreSQL, Redis, Django

Frontend: Vue.js, React, Inertia.js, Tailwind CSS, Alpine.js, Webpack/Vite

DevOps/Infrastructure: Docker, Nginx, Linux Administration, XCP-ng, Infrastructure as Code, CI/CD, SSL/TLS, Tailscale

Cloud/Platforms: AWS (EC2, S3), DigitalOcean, Laravel Forge, Cloudflare, MinIO, n8n

Practices: Test-Driven Development, Agile/Scrum, API Design, Microservices, Domain-Driven Design, Git Flow

Business Systems: HubSpot, QuickBooks, Stripe/Payment Processing, Twilio, OAuth/SSO

Soft Skills: Technical Documentation, Cross-functional Collaboration, Remote Leadership, System Architecture, Problem Solving

Education & Certifications

B.S. in Computer Science

Western Governors University (Remote)

Certifications:

- CompTIA Project+ (January 2022)
- HubSpot Service Hub Software (January 2022)
- ITIL Foundation Certificate in IT Service Management (2023)