

Joe M. Brown III

Detroit, MI, USA | techknowsjoe@gmail.com | +1-313-719-9896 | joebrown.io | linkedin.com/in/joe-brown-8673bb151

Professional Summary

Full-stack software engineer with 8+ years of experience architecting and delivering scalable, high-performing applications. Experienced in leading cross-functional teams, mentoring engineers, driving product impact, and building developer productivity tools, automation frameworks, and infrastructure that accelerate delivery and improve reliability.

- **Key skills:** TypeScript, React, NodeJS, Playwright, Python, C#, SQL, Docker, Workflow Automation

Experience

Zapier (Senior Software Engineer) - San Francisco, CA (Remote) Jan 2026 - Present

- Led build and CI/CD improvements for a large production Next.js and TypeScript application, reducing production build times by 25%, test execution by 30%, CI shard allocation by 90%, average pipeline costs by approximately 72%, rebuild times by 3x, and page load times by 15%.
- Led the migration of presence detection from Ably to Firebase, reducing annual infrastructure costs by approximately 95% and establishing a migration strategy adopted by additional teams.
- Led resolution of critical issues affecting strategic enterprise customers, helping retain high-value customer relationships and enabling the successful onboarding of a major enterprise customer.
- Developed an AI-powered security triage agent that reduced manual security analysis from hours or days to minutes, accelerating vulnerability remediation and becoming a widely adopted tool across multiple engineering teams.
- Led internationalization for one of Zapier's largest repositories, extracting more than 15,000 user-facing strings and introducing the product's first scalable translation workflow with Lokalise.
- Led a one-month initiative to bring 11 production services into compliance, completing the effort ahead of schedule while exceeding organizational security requirements.
- Designed editable, versioned automation templates and automatic draft saving to improve collaboration and protect complex workflow edits from accidental data loss.
- Automated production deployment pipelines across multiple services, eliminating manual releases and improving deployment consistency.

Microsoft (Software Engineer II) - Redmond, WA (Remote) Aug 2022 - Jan 2026

- Led cross-team initiative to scale automated test coverage across Power Platform from ~20% to 100% and improve pass rates 15% to 96%, reducing regressions and eliminating vendor reliance, saving 22 weeks of developer time annually.
- Partnered with designers and product managers to deliver and optimize the Copilot Studio Automation Editor, improving performance and shipping a feature that grew from 40K+ to more than 250K monthly active users during my tenure while delivering ahead of schedule.
Enabled integration of external APIs into Copilot automations, expanding Microsoft Copilot Studio and 365 capabilities.
- Led accessibility testing (WCAG 2.1) and remediation for Copilot Studio, enabling enterprise and government adoption.
- Developed multiple internal productivity tools (release dashboards, feature flagging, Playwright test generators, coverage reporting), streamlining workflows and reducing manual effort across multiple orgs.
- Engineered CI/CD pipelines in Azure DevOps (YAML) for Power Platform and Copilot services, removing manual deployer roles and saving 3–5 months of dev time per year.
- Developed automated adversarial evaluation pipelines for GPT-4, identifying multiple reliability and safety issues that were responsibly disclosed to OpenAI.
- Built monitoring and geo-specific E2E validation pipelines, enabling rapid regression detection, smooth global rollouts, and backward compatibility assurance.
- Mentored junior engineers through office hours, onboarding, and technical guidance, improving adoption of automation tooling and fostering long-term engineering growth.

Microsoft (Software Engineer) - Bellevue, WA (Remote) May 2020 - Aug 2022

- Built Power Automate's UI testing framework (TypeScript + Playwright), eliminating manual bug bashes and reducing regression detection time by 60%.
- Implemented collaborative automation sharing functionality (TypeScript, React, C#, .NET), which surpassed 1 million monthly active users and became one of Power Automate's most widely adopted features during my tenure.
- Developed converters for JUnit/JSON to TRX test format, enabling ADO support for test ownership metadata and linking failures directly to responsible engineering teams.
- Created a pipeline test failure notification system that sent reports to test owners, accelerating resolution of critical issues.
- Developed a Proof of Concept for Automation Versioning & History, which won an internal hackathon and was later adopted

as a core product feature with 40k+ MAUs.

DCS Corporation (Software Engineer) - Warren, MI

Dec 2018 – Feb 2020

- Developed network monitoring and video streaming latency tools for the DoD's Next Generation Combat Vehicle using C/C++, Python, Qt, and OpenCV.
- Implemented CI/CD pipelines in AWS with Docker and Jenkins, enabling automated deployments for the first time.
- Contributed to AI/ML initiatives for image detection and navigation for robotic systems.

Education

Georgia Institute of Technology – MS in Computer Science (A.I. Concentration)

May 2023

Wayne State University – BS in Computer Science

Dec 2018

Projects

joebrown.io

<https://joebrown.io>

- Designed and developed my professional website to showcase engineering projects, technical writing, professional experience, and consulting services. **(TypeScript, Next.js, React, Tailwind CSS, MDX, Vercel)**

Logic Apps UX

<https://github.com/Azure/LogicAppsUX>

- Contributed to Microsoft's open-source Logic Apps UX library, fixing parsing/state issues and enhancing modularity for enterprise-scale workflows. **(Typescript, React, Redux, NodeJS, Jest, Playwright)**

FEMR - Fast Electronic Medical Records

<https://github.com/FEMR/femr>

- Enhanced an open-source electronic medical record system with feature improvements, bug fixes, and data validation to improve reliability and usability for end users. **(Java, JavaScript, Play Framework, HTML/CSS, Git)**

Math Corps – Student Management Platform

<https://mathcorps.org>

- Led a 4-person team to develop a student registration and analytics platform, including architecture, backend APIs, database, tests, and a custom PHP Excel library. **(PHP, Laravel, JavaScript, HTML/CSS, MySQL, AWS)**