Brenden O'Flaherty

Email: brendenoflaherty@gmail.com | Portfolio: https://www.brendenoflaherty.dev | GitHub: https://github.com/boflaherty3
Cambridge, MA 02141 | Mobile: (845) 772-2795

KEY SKILLS

Languages: JavaScript, Python, TypeScript, C++, HTML, CSS, SQL
Frameworks: React, Node.js, Astro, TailwindCSS
Tools: Git, GitHub, AWS, WordPress, Google Analytics, AI/ML Platforms, MySQL, UI/UX Design

EDUCATION

Tufts University, Medford MA
B.S. Biomedical Engineering, May 2020
Minor in Economics

EXPERIENCE

Infinite Limit Business Services — Cambridge, Massachusetts
Website Developer, Freelance Contractor — *Nov 2024 – Present*
- Design and deploy a 6-page website using Astro.build, TypeScript, JavaScript, HTML, and TailwindCSS.
- Implement CI/CD pipelines with GitHub Pages, achieving 100% uptime post-launch.
- Develop new features locally using Node.js, including a dynamic contact form for client inquiries.
- Explore generative AI-powered chatbot using Node.js and OpenAI's API to enhance user engagement by providing real-time, context-aware responses to visitor queries.

Brand and Buzz Consulting — Cambridge, Massachusetts
Website Developer, Freelance Contractor — *Sep 2024 – Present*
- Redesign Media and Speaking Engagements pages on WordPress, increasing site traffic by 25% through SEO optimization and consolidated article postings.
- Streamline blog posting process by reconfiguring backend logic, reducing update time by 50%.
- Integrate Google Analytics and Search Console to monitor user behavior, providing data for potential machine learning-based personalization features.
- Enhance SEO using Yoast plugin to optimize keywords and internal linking, leveraging AI tools to predict high-impact keyword trends.

Medtronic, *Advanced Manufacturing Engineering* — Danvers, Massachusetts
Process Engineer II - New Product Introduction — *Nov 2023 – Present*
- Write and review PLC software for custom automation equipment, ensuring seamless integration into production lines.
- Collaborate with cross-functional teams to design and validate software-driven manufacturing solutions.
- Lead engineering change orders to integrate new technology into clinical production lines.
- Serve as Subject Matter Expert (SME) on equipment development for a 1,000-person manufacturing site.
- Design, develop, and procure custom equipment and fixtures for manufacturing of novel Catheter Delivery Systems.
- Master highly complex product design for Class II and III medical devices.

Abbott Laboratories — Burlington, Massachusetts
Engineer II, Product Analysis — *Jun 2022 – Nov 2023*
Engineer I, Product Analysis — *Jun 2020 – May 2022*
- Led the creation of a new lab space, including the design and testing procedures for a novel Class III product line.
- Designed testing protocols for implantable cardiac devices, analyzing failure data to inform product improvements.
- Coordinated purchasing, calibration, and maintenance of new equipment across internal and external teams.
- Exceeded goals while launching projects to expand the department.

Electrocardiogram (ECG) Project — Madrid, Spain
Universidad Carlos de Madrid III — *Jan 2019-June 2019*
- Designed and built a functional ECG using operational amplifiers, capacitors, and resistors, applying MATLAB and DSP to filter noise and output accurate readings.

Additional Interests

Interests: Fitness, running, astronomy, snowboarding, hiking, NY Giants and Yankees, traveling