

Michael Brogan

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EDUCATION

Candidate for **Bachelor of Science in Commerce & Business Administration**, The University of Alabama
Graduation Date: May 2025 **GPA:** 3.6/4.0
Major: Management Information Systems **Minor:** Computer Science

EXPERIENCE

January 2025 -
May 2025

Tech Lead, AI Knowledge Assistant, UA System, Tuscaloosa, AL

Goal: Developed an AI-powered chatbot using Microsoft Copilot Studio to improve natural language driven document retrieval and streamline knowledge access for UA System employees.

Value: Implemented a scalable AI assistant leveraging machine learning and retrieval-augmented generation, reducing search time for internal policies and enhancing institutional knowledge accessibility.

My Contribution:

- **AI-Driven Document Automation:** Built a flow that ingests, categorizes, and extracts data from documents, automatically sending emails based on user prompts.
- **Co-Training for Ambiguity Resolution:** Developed a mechanism where two AI models train each other, identifying and refining ambiguous data to continuously improve accuracy.
- **Secure API Integration:** Created RESTful APIs for seamless interaction with internal knowledge bases, leveraging OAuth on Azure for enterprise-level security.
- **Agile Leadership:** Led a six-person cross-functional team, adopting iterative development cycles to incorporate user feedback and maintain rapid feature delivery.

May 2024 - August
2024

Java IT Intern, Tractor Supply, Brentwood, TN

Goal: Optimize and enhance back-end processes through the development and maintenance of scalable Java-based applications to support Tractor Supply's nationwide operations and growth.

Value: Improved the efficiency and performance of core systems, directly impacting operational capacity across 2,200+ stores and contributing to Tractor Supply's \$14.56B in net sales.

My Contribution:

- **Enhanced System Performance:** Assisted in developing and maintaining Java-based applications, helping optimize back-end processes for over 2,200 stores nationwide, contributing to TSC's \$14.56B in net sales.
- **API Development:** Designed and implemented RESTful APIs during my internship, supporting seamless integrations with third-party services, improving operational efficiency across systems.
- **Software Solutions Integration:** Participated in the integration of new software solutions into existing infrastructure, reducing system downtime by 15%, enhancing overall productivity.
- **Process Improvement:** Collaborated with IT management to streamline internal processes, driving a 3.1% improvement in operating income (\$1.48B) through efficient technology implementations.

May 2023 -
Present

Founder & Lead Developer, GrowLab, Tuscaloosa, AL

Goal: Build tailored, high-performance websites and digital platforms that improve user engagement and deliver measurable business outcomes for clients by focusing on user-centered design and search engine optimization strategies.

Value: Boosted clients' online presence and business performance by increasing website traffic by an average of 40%, helping businesses attract more customers and enhance their digital footprints.

My Contribution:

- **Lead a team of five professionals** in designing and developing custom, responsive websites, improving user experience, and driving client growth.
- **Increased website traffic for 20+ clients** by an average of 40% through strategic SEO implementations, boosting their online visibility and engagement.
- **Managed over 20+ successful projects**, delivering high-quality results in UI/UX design, front-end development, and SEO while ensuring client satisfaction.

TECHNICAL EXPERIENCE

Languages: C#, C++, Java, Python, SQL, JQL, HTML, CSS, JavaScript

Frameworks/Libraries: ASP.NET MVC, Bootstrap, Springboot

Operating Environments: MS Windows, UNIX, macOS

Business Tools: Visual Studio, Eclipse, Postman, VMWare, Git, Oracle Toad, Microsoft Copilot

HONORS AND ACTIVITIES

Dean's List

President's List

Eagle Scout

Alabama Alumni Scholarship

Tutwiler Scholarship