

## Skills

### Application Development:

- Frameworks such as React.js, .NET, Flutter
  - Work Experience:* Developing Business Applications for Stitch Golf

### Web Development:

- Frameworks such as Express.js, Django, ASP.NET, Flask, Angular.js, HTML/CSS/JavaScript
  - Work Experience:* Developed a Web Application for Stitch Golf Sales Employees to View PowerBI Reports, Hosted on Azure through DevOps

### Databases:

- Relational (SQL) and Non-Relational (noSQL)
- Database Platforms such as Microsoft SQL Server, SQLite, MySQL, Firebase
- Querying Databases within Software
  - Work Experience:* Designing/Developing a Database for Stitch Golf to Manage Clients' Order Customizations with Microsoft SQL, Querying Databases in Custom Applications, Automations, and APIs

### Automations/Microservices:

- Developing Automations and Microservices to Complete Business Tasks
- Azure Functions/Azure Logic Apps, custom Webhook Receivers, Microservices
  - Work Experience:* Maintaining, Testing, and Developing Automations at Stitch Golf - Replaced Manual Processes with Automations built for Stitch Golf

### APIs:

- Interacting with APIs using JSON, XML, GraphQL
- HTTP/HTTPS Requests and Responses
- Developing custom APIs using Express.js, Hosted on Azure through DevOps/ Azure App Services or Kubernetes
  - Work Experience:* Interacting with APIs of Platforms (i.e. Shopify)

### Programming:

- Programming Languages such as Javascript, Python, C#, C++, Dart, Java
  - Work Experience:* Programming at Stitch Golf on Projects (C#, Javascript, Python, Dart)

### Version Control:

- Git, GitHub, DevOps
  - Work Experience:* Utilizing Version control with software projects at Stitch Golf, DevOps

### CI/CD:

- Design/Development of CI/CD pipelines, GitLab CI/CD and Azure DevOps

### Documentation, Debugging, Designing, and Testing software:

- Work Experience:* Documenting, Debugging, Designing, and testing software at Stitch Golf

### Object-Oriented Program Design and Implementation.

### Software architectural patterns (MVC, MicroService, Layered)

### Utilizing cloud services (Azure) for deployment

### Agile software development, Scrum

### Kubernetes (AKS) and Containerization

### Operating systems: Windows, Unix, Linux, and Chrome.

## Personal Projects

### Home Services App - React Native Project

- Source Code:** <https://github.com/j-daggs/home-service-app>
- Overview:** <https://j-daggs.github.io/Personal-Portfolio/portfolio.html>

### Personal Website - Javascript/Bootstrap/HTML/CSS -

- Source Code:** <https://github.com/j-daggs/Personal-Portfolio>
- Site:** <https://j-daggs.github.io/Personal-Portfolio/>

### PickUp Sports App - Flutter/Firebase

- Source Code:** <https://github.com/j-daggs/PickUp>
- Site:** <https://csc450-sp23-project-team-4.web.app/>
- Overview:** <https://j-daggs.github.io/Personal-Portfolio/portfolio.html>

## Experience

### Applications Engineer at STITCH Golf (June 2023 - Present)

- End-to-end development, testing, and deployment of Software to improve B2B, Production, and Pre-Production processes
- Working in an Agile Environment, Using Azure Cloud Service/Dev Ops
- Developing/upgrading/maintaining applications, automations, microservices, databases, and APIs that provide efficiencies to workflows
- C# (.NET), JavaScript (Express.js, React.js, Node.js), Flutter, Python (Flask, Django), Azure Functions, Azure Logic Apps, Microsoft Power Apps, SQL, ODATA, HTML/CSS, Rest APIs, JSON/XML/GraphQL, Azure Cloud

### Accomplishments:

- Pioneered the development of a game-changing Application for Pre-Production personnel, streamlining the uploading and manipulation of Business Client Logos on the B2B platform (ApparelMagic)
  - Expedited Pre-Production workflows, curtailed costs by obviating the need for an external B2B Customization Management Service.
  - .NET, Microsoft SQL Server, and API integration
- Created a sophisticated MicroService. Intelligently processes order data, extracts embroidery/laser print customization details via ODATA queries, dynamically generates visual representations using HTML/CSS, and seamlessly converts them into professionally formatted PDFs.
  - Yielded daily time/cost savings for Pre-Production processes
  - ODATA, API Integration, HTML/CSS, .NET, Azure Functions
- Designed and Developed a serverless SQL database in Azure, supporting B2B Embroidery Designs, Logo Management, and Pre-Production processes. Storage/Management of comprehensive data, including Logos, Embroidery Designs, Customer info, B2B Orders, and more.
  - Replaced a service (EmbTrak) - higher reliability and cost savings
- Developed app for Pre-Production/Production teams, integrating SQL Database. Users can search, view, and modify orders from ApparelMagic B2B Platform. Features color/thread customization, live logo thread coloring preview, viewing work orders for iPad-based operations.
  - .NET, API Integration, SQL - replaced a previously paid-for application/service, Streamlined Workflows
- Engineered an application for Stitch Employees to manage Customization Placement and Placement Group information in the Microsoft SQL Database. Users can attach PNG images and PDF instructions, syncs with Apparel Magic's B2B Platform through API.
  - .NET, Microsoft SQL Server, Azure File Share, API integrations
- Created an API that receives a thread number, extracts its RGB values from a data source, converts the RGB to a hex, and returns the thread number, RGB values, and the hex value in an HTTP Response
  - Microsoft SQL, Javascript, Express.js, Node.js
- Produced an API that takes DST files with thread values and creates a high-quality, base64-encoded embroidery-like PNG representation of the DST by decoding the embroidery instructions within the file.
  - Express.js, Node.js, Kubernetes Cluster
- Designed and implemented a user-friendly API, generates base64 encoded images of barcode or QR code representations through text queries
  - Node.js and Express.js - replacing a previously paid API service
- Designing and Applying Algorithms to Build/Modify 50+ Automations/Microservices/Webhook receivers running on Azure
  - Designing and Applying Algorithms
  - Javascript, .NET, Logic Apps, and Azure Functions
  - Editing fields, moving orders along in the fulfillment process, etc.

## Education