Aidan Le-Beard

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EDUCATION

Kennesaw State University   **December 2022**
Bachelor of Science in Computer Science   *Kennesaw, GA*
- Graduated **Summa Cum Laude**, with a **4.0 GPA**.
- Presented Senior Project app, Hungr, at KSU's C-Day Computing Showcase.
- Parallel & Distributed Computing (Java), Algorithm Analysis, Internet Programming (HTML/JS/CSS/Python), Software Engineering, Data Structures (C++), Database Systems (SQL), Cryptography, Statistics, Artificial Intelligence (Python/Lisp), Technical Writing, Intro to Japanese Language II, etc.

WORK EXPERIENCE

Vietnamese Business Solutions   **December 2022 – Present**
Software Engineer   *Lilburn, GA*
- Maintain website using .NET, writing code in HTML and JavaScript.
- Modify REST API for different customer website needs.
- Create functions in JavaScript in React and Node.js for POS web app.

PROJECTS

Hungr: Cross-Platform Flutter App   **August – December 2022**
Full-Stack Developer github.com/aidan-le-beard/hungr.dev & github.com/aidan-le-beard/api.hungr.dev   *Kennesaw, GA*
- Developed the app's front-end and back-end logic by learning Flutter and using **Dart**.
- Implemented secure account creation and secure login by utilizing **Firebase** authentication.
- Devised a shareable grocery list with dynamic real-time updating to all group members as the list is updated.
- Created a database in **Python** by utilizing **SQL** to hold all existing groups and their data.
- Wrote Python **REST API** calls, utilizing a self-hosted server to read and write data from the **SQL** database.
- Programmed sorts, such as purchase frequency, by using purchase history stored in back-end SQL database.

EBNF Language Creation, Tokenizer, Parser, and Executor   **August – December 2022**
Backend Developer github.com/aidan-le-beard/Tokenizer-Parser-Executor-for-Self-Defined-Python-esque-EBNF   *Kennesaw, GA*
- Created a novel **EBNF** with operator precedence, function definitions, while loops, if statements, etc.
- Developed a novel **tokenizer** and **recursive-descent parser** utilizing **Python** and novel EBNF.
- Utilized **Python libraries** treelib and graphviz to print a visualization of the recursive-descent parse tree.
- Created an **executor** by using Python to walk the parse tree, create executable code, and print the results.

Threaded Sort Using Client-Server TCP Network Connection   **August – December 2022**
Backend Developer github.com/aidan-le-beard/Threaded-Sort-Using-Client-Server-LAN-Connection   *Kennesaw, GA*
- Created a TCP connection using Java to send an unsorted list from the client to the server.
- Utilized 1, 2, 4, 8, and 16 threads to sort the list by decomposing and then merging the list.
- Calculated average sort times and efficiency values by using the data returned from the server to the client.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML, CSS, Dart, SQL
Frameworks: Flutter, Flask, Firebase, React, Node.js, .NET
Developer Tools: VS Code, Spyder, Eclipse, Postman, Github, Microsoft Office