Steven James

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EDUCATION

University of Illinois at Urbana-Champaign   August 2020 – August 2023
Bachelor of Science in Statistics and Computer Science   *Champaign, IL*

EXPERIENCE

Software Developer   September 2023-Present
Fitch Group   *Chicago, IL*
- Developed serverless functions using AWS Lambda to implement efficient and scalable ETL processes, reducing processing time and operational costs.
- Designed and implemented workflows using AWS Step Functions, effectively orchestrating the execution of multiple Lambda functions to streamline data processing pipelines.

Full Stack Engineer Intern   May 2023 – August 2023
PNC   *Pittsburgh, PA*
- Developed an enterprise grade application to measure the health of a custom software-component using both company specific and industry-standard statistics, and prescribe thousands of users personalized improvement options
- Personally designed and implemented a custom algorithm to calculate the health score of software
- Created a dynamic and intuitive user interface using AngularJS
- Engineered a RESTful API allowing seamless data collection by the frontend

Software Development Intern   January 2022 – August 2022
Fitch Group   *Chicago, IL*
- Partnered with Solo.io to establish a cutting-edge developer portal as a microservice to publicly host 14 API's used by thousands of companies
- Reworked RESTful APIs built with Crnk to use Spring Boot and Spring HATEOAS
- Made a company-wide demonstration of event streaming and schema evolution using Kafka and Schema Registries
- Link to Developer Portal: https://developer.fitch.group/

PROJECTS

PanExpedia Pandemic Travel Guide | *Python, Flask, JavaScript, GCP*   March 2022 – May 2022
- Developed a travel guide for the pandemic using country, airport, and covid datasets containing nearly 15,000 data points in total, also incorporating user-generated data
- Created a database and hosted it on Google Cloud Platform, and personally used SQL and python to connect to the web application
- Personally connected the frontend and backend using Flask and JavaScript, while also developing a basic functional

BitCoin Trust Network | *C++, Git*   April 2021 – May 2021
- Led a group of three to develop a program in C++ that allows users to see general trends of trustworthiness among over 5,000 BitCoin traders, allowing users to find potential trade partners
- Created a data visualization that allows users to view all possible traders in a graph format
- Implemented Dijkstra's Algorithm as a means of finding trustworthy trade partners by tracking over 35,000 unique trades between users

A* Pathfinding Visualization | *C++, Cinder, Git*   October 2020 – November 2020
- Built a visualization of the A* Pathfinding Algorithm using C++ and the Cinder library
- Illustrated how the algorithm works in real-time, allowing the user to control the start and end points

TECHNICAL SKILLS

Languages: C/C++, Python, Java, SQL, JavaScript, HTML/CSS, R, Haskell
Developer Tools: Git, Docker, AWS, MySQL, Google Cloud Platform, Agile Development, Kafka, React, AngularJS
Concepts: Unix, Data Structures, Algorithms, Operating Systems, System Programming, Networking, Functional Programming