Timothy James Barrett

https://github.com/tjbarrett42

Email: timothy@jamesbarrett.us

Mobile: +1-973-830-7907

Website: https://jamesbarrett.us

EDUCATION

Stevens Institute of Technology

Hoboken, NJ

Bachelor of Science in Computer Science

Sep. 2016 - May 2020

WORK EXPERIENCE

Allvue Systems

New York, NY

Application Engineer, Operations

July 2020 - Present

- $\circ\,$ Resolved errors in SQL procs, XML data, and XSLT configs with XPath and SQL debugging queries.
- \circ Designed scripts to resolve trade and B2B data inconsistencies in client production environments.
- Improved ticket prioritization process by implementing Salesforce database searching functionality.

New Jersey Innovation Institute

Newark, NJ

Project Assistant and Consultant, Innovation Services

June 2019 - Aug. 2019

 Created the project prioritization system for incubation of high ROI solutions within physician networks, securing a \$1,000,000 contract.

PROJECTS

Workout Split Planner (exercise-planner.vercel.app)

Haledon, NJ

React, Material UI, react-beautiful-dnd, recharts, ExerciseDB API

January 2022

- $\circ\,$ Deployed and managing an interactive weekly exercise routine planner and optimizer.
- Modified drag-and-drop library into controlled components to manipulate all states efficiently using hooks.
- Utilized memoization to reduce render lag during client-side state updates.
- Implemented recharts library to visualize aggregated routine data using composed graphs.

Total Daily Expenditure Estimator (tdee-calculator.vercel.app)

Haledon, NJ

React, Material UI

January 2022

- Deployed a webapp for calculating caloric intake requirements based on human measurements.
- Utilized nested component mapping to list tables of macro ratios for weight maintenance, loss, and gain.
- Worked with a base of over a dozen current users to implement feature requests and increase accuracy.

Stevens Shuttle System

Hoboken, NJ

React, AWS Lambda, MongoDB

August 2019 - May 2020

- Collaborated with students on Senior Design Project to create a user-friendly bus schedule application, increasing arrival time accuracy from 20 to 98 percent.
- Exercised AWS Lambda operations to compile raw location data from third party bus API.
- Utilized unsupervised machine learning to group bus data and predict arrivals within 2 minutes.
- Built a responsive webapp to display predicted schedules for student use on both mobile and desktop devices.

TECHNICAL SKILLS

Languages
Technologies & Libraries
Tools
Databases

JavaScript, Java, Python, TypeScript, SQL, GraphQL, C#, XSLT, XML React, Redux, Node.js, Express, REST APIs, HTML, CSS, AWS Lambda SQL Server Management Studio, Webstorm, Visual Studio, Git, TortoiseSVN

MySQL, MongoDB, Redis, PostgreSQL