Timothy James Barrett

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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

Email: timothy@jamesbarrett.us

- Identified errors in XML response/request data, XSLT configurations, and product code resolved with XPath and SQL debugging queries.
- Designed and delivered SQL scripts for client production environments to resolve trade data inconsistencies with back office providers.
- Managed product expectations and functionality for client base of over 50 different hedge funds, firms, and investment banks through email and phone.
- Implemented Salesforce database searching for proprietary Chrome extension increasing documentation cross-referencing productivity for 30 engineers.

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.
- Negotiated directly with client executives to ensure operation within project budgets.

PROJECTS

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

Haledon, NJ

Personal

January 2022

- o Deployed and managing a React interactive workout routine builder designed for optimizing and visualizing weekly exercise volume and timing with over 1300 exercises from the ExerciseDB API.
- o Modified the drag-and-drop library react-beautiful-dnd into controlled components to manipulate all states using efficiently using hooks.
- Utilized memoization to reduce render lag during client-side state updates.
- Visualized aggregated routine data using responsive composed graphs from the recharts library.

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

Haledon, NJ

Personal

January 2022

- Deployed a component-based React webapp for calculating caloric intake requirements based on human measurements using the Mifflin St-Jeor formula.
- Utilized nested component mapping to efficiently list tables of macronutrient splits (protein, carbs, fat) for weight maintenance, loss, and gain.
- Worked with a base of over a dozen current users to implement new features and increase accuracy.

Stevens Shuttle System

Hoboken, NJ

Student

August 2019 - May 2020

- o 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 React application 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