Broderick Boucher

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Education

Rensselaer Polytechnic Institute   **Troy, NY**
B.S. Computer Science, Concentration in Systems and Software   May 2024
GPA 3.53

Experience

Softedge Technologies   **New York, NY**
Full Stack Developer   May 2023 – Aug 2023

- **Collaboration with Development Team:** Introduced alternative solutions to database structure and UI design during discussions about application changes, which lead to multiple adopted optimizations.
- **Customization of UI for Client-Specific Permissions:** Adapted and customized the previous Angular UI to dynamically cater to client-specific user permissions, while achieving instantaneous data population.
- **Integration of Excel Tax Reports:** Analyzed and documented the client's Excel tax reports while integrating their functionality into the software, saving accountants 6,000 hours annually and ensuring consistent results.
- **SQL Query Optimization:** Designed and implemented optimized SQL queries, achieving efficient processing of over 4,000 database entries totaling to $750 million.
- **Bug Management:** Collaborated with the testing team to identify and resolve all bugs associated with the report generation portion of the application, successfully achieving a 100% closure rate.
- **Backend Data Formatting:** Utilized C# libraries to format large datasets, enabling a two-fold output: visual display in the UI as well as a downloadable, well-formatted Excel report.

Softedge Technologies   **New York, NY**
Full Stack Developer   Jun 2022 – Jan 2023

- **Full-Stack Development:** Implemented SQL queries and integrated them through the C# backend to the Angular frontend, contributing to the completion of an application designed for Fortune 500 companies.
- **Legacy Code Integration:** Thoroughly analyzed 10,000 lines of previously used JavaScript code, documenting and incorporating its functionality into the software.
- **Innovative Report Generation UI:** Built a user-centric interface for report generation, eliminating the need for external files and significantly reducing user errors, making the system more accessible for newcomers.
- **White Box Testing for Report Generation:** Conducted white box testing on the code developed for report generation, verifying its internal logic, and ensuring consistent and reliable results.
- **Timely Project Collaboration:** Assisted colleagues who were behind schedule on complex project components, contributing to 90% of them meeting their deadlines.

Clarity Consulting Group   **Mahwah, NJ**
QA Tester   May 2020 – Aug 2020

- **Software Testing:** Compared output from a revenue recognition software against hand-calculated benchmarks, identifying and addressing discrepancies.
- **Error Identification and Reporting:** Detected software inconsistencies down to specific cells, diagnosed logic errors, and provided detailed feedback to developers for rectification.
- **Sample Data Generation:** Leveraged Microsoft Access to create expansive sample inputs for testing, producing datasets over 10x larger than previously used, aiding in software run-time optimization.

Organizations

Pi Lambda Phi Fraternity   **Troy, NY**
Webmaster and Steward   Feb 2022 – Present

- **Webmaster:** Pioneered the creation of the RPI Pi Lambda Phi chapter website from scratch using Wix, procured the domain, and ensured an online presence and connectivity for the house.
- **Steward:** Orchestrated weekly dinner schedules for 10-25 fraternity members, while adhering to a predefined budget.

Technical Skills

Languages: Java, Python, JavaScript, Typescript, C++, C#, PHP, SQL, HTML, CSS
Frameworks/Tools: Angular, React, ASP.NET, Express, GitHub, Bitbucket, Postman, Agile, Jira
Relevant Courses: Data Structures, Operating Systems, Web Systems Development, Principles of Software, Database Systems

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