Daniel Arthur Dukeshire

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Objective

Computer science graduate offering a strong foundation in software engineering and programming principles across multiple platforms. Experienced and educated in object-oriented programming; developing, and testing/debugging code. A fast learner of new technologies, with strong time management and multi-tasking skills. Highly motivated, goal-oriented, and thriving to excel in data analysis and software.

Technical Profile

Languages: Python, SQL, JavaScript, C#, C, C++, Java, HTML, CSS3
Platforms & Frameworks: Linux, Mac OSX, Windows, ASP .NET Core, jQuery, Bootstrap
Other: Microsoft Office Suite, GitHub

Experience

Software Engineer

Ellington Management Group, Old Greenwich, CT | May 2021 – Present
Full-Stack developer dedicated to designing, building, and maintaining applications which support various business units across the firm. Primarily involved in analyzing requests from front-office traders to extend and adapt an internal portfolio management system and accounting codebase. This includes building-out interfaces in JavaScript, HTML, and CSS to properly model data for desk analysis, extending quantitative research capabilities and workflows in Microsoft SQL Server, and managing a complex proprietary trading system in C# (ASP .Net Core) whilst supporting daily operational processes within the CMBS desk.

Software Engineering Intern

Customer Sync LLC, Bedford NH | 2019
Primary developer of an add-on solution, providing enhanced and highly configurable email notifications to Scribe software users. Worked with SQL Server, T-SQL, HTML, C# and .NET to create programs to query specific databases for runtime errors and ongoing bugs, interacting with Gmail and HTML interfaces as an update service. Aided data-mapping software design via Agile development.

Projects

Link Analysis | Search Engine
An attempt to build a scalable, high performance web-based search engine from scratch alongside a team of 25 members, divided into subgroups. As a developer in the link analysis group, I was responsible for establishing data-driven relationships between webpages, represented by nodes in a graph. An implementation of complex pathing algorithms in Python, introduction to web scraping, and RESTful APIs.

Leveling Analysis | Visualization
A web project built to support the valuation process at Ellington within the accounting team. Developed a full stack to allow for data manipulation and visualization, whilst performing the necessary computation to determine the level of an asset at month end. Allowed for users to "sign off" on an asset via a RESTful API controller upon approval.

CPU Scheduling Algorithm | Simulator
A rudimentary implementation of an operating system, focused on processes resident in memory waiting to use a CPU. Simulated FCFS, SJF, SRT, and RR algorithms. Written in C++, required knowledge of: I/O programming, threading & concurrency, process management, and synchronization.

Education

Bachelor of Science in Computer Science (BS)

Rensselaer Polytechnic Institute, Troy NY | 2017 - 2021
GPA: 3.5 / 4.0
Awards & Honors: Cum Laude, Deans Honor List 2017 - 2021, National Society for Leadership and Success, A.L. Love III '42 Scholarship, Rensselaer Leadership Award, Liberty League All-Academic 2019 & 2020 (RPI Men's Soccer), Norman F. and Marilyn W. Jones Scholarship.