Connor Patterson

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EDUCATION

Rensselaer Polytechnic Institute — Troy, NY
B.S. in Computer Science, Minor in Management — *August 2019 – June 2023*
- James A. Voorhies '20 Scholar

EXPERIENCE

PipeSearch LLC — May 2021 – August 2021
Full Stack Developer Intern — *Remote & Austin, TX*
- Utilized HTML, CSS, React and Django development to fix bugs and improve old systems
- Completed a project that allows a user to download an Excel template (that dynamically updates based off of PipeSearch's API endpoint) for a supply opportunity upload. Then, the user can upload an Excel file that gets validated through an API endpoint, outputs an error if any piping measurements are incorrect/missing, otherwise the supply opportunity is saved to PipeSearch's database

RELEVANT COURSEWORK

Computer Science
- *Operating Systems* - Studied topics such as I/O programming, concurrent processes and synchronization problems, process management and scheduling of processes, virtual memory management and device management
- *Introduction to Algorithms* - Used Python to learn about advanced data structures/algorithms, use mathematical techniques for designing algorithms as well as analyzing worst-case and expected-case algorithm efficiency
- *Numerical Computing* - Utilized MATLAB to learn about various mathematical topics and their applications with computers
- *Computer Organization* - Used C and MIPS to learn about computer organization, assembler language, and operating systems
- *Data Structures* - Used C++ to learn different data structures/algorithms, their advantages and disadvantages as well as time complexity

Management
- *Computer Information Systems* - Studied the concept and components of computer-based "management information systems" (MIS) and their integration into organizational processes to gain competitive advantage
- *Financial Accounting* - Studied fundamentals of financial accounting systems

RELATED SKILLS

Languages: Python, C/C++, JavaScript, HTML, CSS, MATLAB, LaTeX, PostgreSQL
Frameworks/Libraries: Django, React
Developer Tools: BitBucket, Git, Postman

PROJECTS

Personal Website(s): I have two personal websites, (both use HTML/JavaScript/CSS) but one was created off of an HTML template that I heavily modified for my own use (and is currently live), and the other is being done completely from scratch using React
Discord Bot: Created a Discord Bot using JavaScript, as well as learning Discord's API, that allows the user to interact with it. For example, it can determine the user's role and respond with a certain line of text

CLUBS ORGANIZATIONS

Rensselaer for Ethics, Science, Engineering and Technology: A STEM discussion club that talks about the ethical impact about current advances in science, engineering or technology
RPI Men's Lacrosse Team: Learned soft skills such as time management and organization, communication, patience and resilience when something does not go according to plan. All skills useful for both on the team and in real life situations
UPchieve Tutoring: Online volunteer work to help tutor students with mathematics