Peter Cougan

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Education

Syracuse University (Syracuse, NY)   May 2019
- Computer Science Major (B.S.), *College of Engineering and Computer Science*
- Mathematics Minor, *College of Arts and Sciences*

Technical Projects   View more online at: *petercougan.com/portfolio.html*

Multi-Threaded Synchronization Routine   October 2017
Design of Operating Systems (CIS 486)
- Implement the given synchronization analogy into an emulated machine and operating system (JNACHOS) as a kernel space procedure
- The problem consisted of an analogy in which a pool obstacle course with an arbitrary number of children, lifeguards, and obstacles are to be synchronized to successfully run all threads
- Experience gained: using Semaphores to synchronize multiple threads, general algorithm design for a multi-threaded routine, design of modern operating system components

Software Requirement Specification Team Project   October 2017
Software Specification and Design (CIS 453)
- Develop a business-driven model of the team's chosen software with a completed Software Requirement Specification (SRS) document, including use-case diagrams, use-case descriptions, and activity diagrams
- Our team modeled a Student Advising System to be used as a web application in which students can easily schedule appointments with their advisors and also be advised by the automated system to help choose courses for their upcoming semester
- Experience gained: understanding software from a business perspective, modeling software with diagrams, working as a team, meeting deadlines as a long-term project

MIPS Assembly Merge Sort Implementation   April 2017
Computer Design & Programming Systems (CIS 341)
- Implement a merge sort algorithm as an assembly language (MIPS) program
- An array of integers was loaded into memory, the merge sort algorithm was operated on the array, and the sorted array was printed to the screen
- Experience gained: accessing memory with registers, design of control constructs, general knowledge of logical design in assembly language, differences of programming in assembly language compared to high-level languages

Technical Skills

Languages: C/C++, Java, Haskell, PHP/SQL, HTML/CSS
Software: Microsoft Windows, Mac OS X, Microsoft Office Suite
Other: Probability & Statistics, Calculus

Leadership Experience

Syracuse University Phanstiel Scholar (Syracuse, NY)   August 2015 – May 2019
- Awarded to students who have demonstrated academic success and community leadership
- Encourages and requires students to fulfill several community service projects throughout the academic year, such as fund raisers for charity organizations, mentoring local elementary/high school students, and many other opportunities

Junior Achievement Program (New Hartford, NY)   February 2015 – May 2015
The Hartford Financial Services Group
- Worked with a team of 20 students from nearby school districts to develop and sell our product – Charger Armor, a 3D printed product that reinforces iPhone chargers to prevent tearing
- Gained experience managing a team as Vice President of Human Resources, sales, working in a professional setting, and brainstorming/innovating in a large group

Work Experience

Town of New Hartford Dept. of Parks & Rec (New Hartford, NY)   May 2016 – August 2017
Laborer, Summer Worker
- Mowed lawns, whacked weeds, painted, etc.
- Gained experience dealing with time management, working in small teams, and interpersonal skills