Carson Forsyth

Contact

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Education

Computer Science, B.S.
Graduating Spring 2022
Pennsylvania State University
2018 – Present
3.30 Cumulative GPA
Dean's List Spring & Fall 2020

Hard Skills

Familiar with:

Data Structures
Linux and Shell Scripting
GitHub and Version Control
Algorithm Runtime Analysis
Object Oriented Design
MySQL and MongoDB
NodeJS and Express
TCP/IP Protocol Suite

Languages

Proficient:
Java
C
Python
Familiar:
JavaScript
C++
HTML
CSS

Soft Skills

Adaptability
Collaboration
Communication
Persistence

Objective

Creative and hardworking junior computer science major at Penn State University, currently seeking an internship in software development for Summer 2021. Looking to learn and refine application development skills through firsthand experience and collaboration.

Experience

Fire Sprinkler Technician, TF Mechanical: 2018 – Present
Collaborating with an experienced team to install complete fire suppression systems–including measuring and cutting piping, installing valves and control systems, supply deliveries, interpreting work specifications from given plans, and testing systems for leaks. Ensured all installs surpassed local fire building safety codes and requirements by the building owner.

Head Lifeguard, YMCA Brandywine: 2018 – 2020
Leading a team of 10+ guards per shift, accountable for safety around the aquatics area. Functioned as lifeguard manager and staff liaison for pool guests to reduce risk and improve member experience. Ensured entirety of aquatics staff always upheld YMCA standards for unannounced audits by Jeff Ellis Associates, exceeding obligations. Trained new hires to guard effectively and without incident. Provided help for monthly staff trainings, verifying that guards understood and implemented the most current policies and addressed any potential needs of the YMCA.

Lifeguard, YMCA Brandywine: 2016 – 2018
Constantly monitoring pool activities and adherence to pool rules, ensuring the safety of 25+ guests throughout shifts. Possessed knowledge of rescue procedures, emergency medical procedures, and safety guidelines as outlined by the YMCA. Participated in monthly staff trainings to maintain and apply the most recent aquatic safety standards.

Relevant Coursework

CMPSCI 221 – Object oriented programming and a Java SQL database application
CMPSCI 311 – Intro to Systems Programming: C programming in UNIX systems, inter-process and network communication
CMPSCI 360 – Discrete Mathematics: Foundations of math and logic in computing
CMPSCI 451 – Numerical Computations: Algorithms for interpolation, approximation, floating point conversion
CMPSCI 465 – Data Structures and Algorithms: Algorithm analysis & optimization
Taking Spring 2021:
CMPEN 362 – Communication Networks: network protocols, routing, signal design, broadcast, impairment, and error control
CMPSCI 431W – Database Management Systems: data modelling, relational query languages, database applications and issues
CMPSCI 464 – Intro to Theory of Computation: automata, language recognition and computational limits in complexity and solvability