CODY J WALKER

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JOB OBJECTIVE:

Position in Computer Science, Software Engineering, or related field.

EDUCATION:

Bachelor of Computer Science, May 2019, University of Arizona.

Minor in Mathematics.

Notable Computer Science Classes Taken: Operating Systems, Parallel & Distributed Programming, Computer Networking, Databases, Object Oriented Design.

Notable Mathematics Classes Taken: Logical Proofs & Reasoning, Cryptography, Multivariable Calculus, Linear Algebra, Statistical Elements Using Calculus.

WORK EXPERIENCE:

Software Engineer   Cobham   Nov. 4, 2019 - Present
                               Prescott, AZ

Software development for the UK's Emergency Services Mobile Communications Programme.

Machinist & Bookkeeper   Williams Machine   July - Nov. 2019
                                    Wilhoit, AZ

In charge of logging company's expenses & profits, and responsible for drilling/machining of high-precision oil restrictors for a small aerospace manufacturing company.

Staff Member   R-C Cub Scout Camp   Summers 2010-13
                          Payson, AZ

Employed at Summer Camp to mentor and direct various camp programs for Cub Scouts.

PROGRAMMING EXPERIENCE:

Four semesters of Java, focused on OOD, Test-Driven-Developement, GUIs, etc.

Four semesters of C, including networking (TCP/IP, ARP, etc.), operating systems, parallel & distributed programming (mutual exclusion barriers, program run-time analysis, etc.).

Three semesters of algorithms/discrete structures, focused on logic, searching algorithms, trees, hashing, time complexities, algorithm design (dynamic, divide & conquer, greedy, etc.).

One semester of Assembly Code (MIPS) & CPU architecture. One semester of Databases using relational algebra, TRC, & DRC, coding in Oracle, SQLServer, DML, JDBC, JSP.

PCEP Certification in Python.

Bash, html, Ruby on Rails, Angular, Node, CSS, JS, JavaFX, C++, C#, Swift, Agile, R, & LaTeX.

NOTABLE SIDE PROJECTS:

Parallel multi-process n-body gravitational simulator, written in C with a Python GUI & 2D visualizer, a JavaFX 2D visualizer, and sequential implementation written in Python.

Client-Server Java chat program using TCP sockets with server running on Raspberry Pi.

3D graphics engine written in LWJGL, GLSL, & OpenGL, capable of running 3D visualization of n-body simulation, & starting point of a game engine.

Home-built desktop computer running dual-boot of Linux & Windows.

HONORS AND AWARDS:

Eagle Scout, Boy Scouts of America: 2011, Prescott AZ.

Eagle Scout Project: Planned, organized, and constructed memorial to fallen servicemen at City of Prescott's Constellation Trail.

National Honor Society: Prescott High School.