

CODY J WALKER

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ADDRESS:

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JOB OBJECTIVE:

Internship or entry-level position in Computer Science or related field to enhance professional skills.

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, Multi-variable Calculus, Linear Algebra, Statistical Elements Using Calculus.

PROGRAMMING EXPERIENCE:

Four semesters of Java, focused on both object oriented & event driven programming; test-driven development; four pillars of object oriented programming; GUIs, etc.

Four semesters of C, including basic concepts (structs, pointer arithmetic, etc.); networking (TCP/IP, client-server, sockets, routing, ARP, etc.); operating systems (dispatcher, mutual exclusion i.e. mail-boxes, semaphores, & monitors, I/O devices, interrupts, virtual memory, etc.); parallel & distributed programming (networking, mutual exclusion barriers, program run-time analysis, etc.).

Three semesters of algorithms/discrete structures, focused on logic, searching algorithms, trees (binary, AVL, splay, red-black, b etc.), 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.

Also familiar with Bash, html, C++, C#, JavaScript, JavaFX, Swift, 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 for runtime-comparison tests.

Client-Server chat program with server running on Raspberry Pi through Dynamic DNS.

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.

WORK EXPERIENCE:

Food Service

Jimmy's Pita & Poke Bowl
Tucson, AZ

2017

Tasks including food prep, delivering, dish-washing, running the grill, opening/closing cleanup, etc.

Staff Member

R-C Cub Scout Camp
Payson, AZ

Summers 2010-13

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

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.