Cristian Cobb

Software Engineer

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📍 Ocala / FL / USA

👤 LinkedIn

🔗 GitHub

🔗 Research Article

🔗 Blackjack Python Code

🔗 Tic Tac Toe JAVA Code

🔗 Binary Search Tree C++ Code

🔗 Total Sales SQL Script

🔗 Multithread C# Code

OBJECTIVE

To leverage my technical expertise and experience to design and develop innovative software solutions that meet and exceed client needs while continuously enhancing my skills and knowledge in emerging technologies.

SUMMARY

Some key strengths and accomplishments include expertise in programming languages, experience with various software development methodologies, ability to solve complex problems and troubleshoot technical issues, effective communication and collaboration with team, and a track record of delivering high-quality software products on time and within budget. Additionally, I have accomplishments such as contributing to open-source projects, earning industry certifications, and implementing innovative software solutions that significantly improve business operations.

SKILLS

- Proficient in Java, C++, Python, and C#.
- Familiarity with software development tools, such as Git, Android Studios, NetBeans, PyTorch, Eclipse, Visual Studios and Jira.
- Experience with Agile methodologies, including Scrum.
- Familiarity with relational databases, such as MySQL and Microsoft SQL.
- Experience with cloud computing platforms, such as Google Cloud.
- Experienced with simulations such as MATLAB and Ubuntu.

EDUCATION

Master's / Electrical and Computer Engineering
The University of Arizona
2025

Master's / Software App Development
Southern New Hampshire University
2024

Technical / Aviation
ATP
2021

EXPERIENCE

Software Engineer I

Tompkins Solutions / Orlando, FL / March 2022 – March 2023

Supported development of a new digital IoT platform for warehouse/distribution industries. This platform utilized the Inductive Automation Ignition platform and custom developed software for automated conveyor systems. My primary responsibilities were creating HMI screens, updating databases, onsite testing, and participated in reviews and testing.

- Created and designed HMI screens and reports from scratch to illustrate the customer's KPI.
- Developed Python scripts to automate database tasks in SCADA.
- Designed and set up screens in HMI for Gladiator Mobile Devices.
- Designed and developed SQL tables to implement in HMI and software applications.
- Created technical documentation for the software application.

CNC Programmer and CAD Tech

Rainbow Cabinets / Ocala, FL / March 2021 – March 2022

Programmed the cut list for casework drawings.

- Created casework Drawings and KCDw and Mozaik and exported it to Enroute for the CNC to cut it.

Bachelor's / Computer Science

Southern New Hampshire University

2019

Associate's / Engineering

College of Central Florida

2017

L I C E N S E

- Autodesk AutoCAD English 2012
- C++
- C#
- Ignition Automation
- JAVA
- Python
- SQL

P R O J E C T S

- Programmed a robotic lawnmower using python.
- Create machine learning software to count military personnel and weaponry.
- Explore the capabilities of the RISC-V ISA in smallsat image processing applications.
- Create an android game in C++.

- Create 2D drawings in ProCAD for submittals and bids.

Software Engineer Graduate Student Researcher

University of Arizona / Tucson, AZ / January 2020 – December 2020

Explored the capabilities that RISC-V offered for smallsat products. The image processing application converts a grayscale image to a black and white image.

- Ran a single image processing application on the PULPino, Ri5CY core.
- Tested the performance improvements introduced by hardware enhancements.
- Successfully converted the original greyscale image to black and white in C by stripping the image header and extracting the width, height, and number of bits per pixel.

Software Research and Developer Intern

IHMC/ Ocala, FL / March 2020– September 2020

Used a drone to experiment with cooperative mapping.

- Modify a software module to recognize machine warfare using captcha machine learning by supervised training a model on dataset of labeled images on YouTube.
- Expand upon Fernando Cladera research on RAPID: Aerial Robots for Remote Autonomous Exploration and Mapping by using his findings on assessing mother nature's damage in identifying machine warefare.

Undergraduate Student Researcher

Southern New Hampshire University / Manchester, NH / March 2019 – August 2019

Developed an intelligent algorithm for a robotic lawn mower to swiftly navigate through the lawn and obstacles.

- Initialized wireless remote for users to interface with the robotic lawn mower.
- Integrated microwave sensors in the robot to navigate around obstacles.
- Developed audio in the robot to create awareness for people and animals.

V O L U N T E E R

- American Red Cross