

# Colby L. Sawyer



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## Objective:

A diligent professional with proven experience in software development and maintenance demonstrated by years of work in the corporate and academic space. A published academic who has become proficient in time management, team communication, customer experience, change management, hard work and fast learning. Experienced in writing and maintaining software from inception to realization.

## Education:

**Bachelor of Science - Computer Science  
w/Minor - General Business Administration**  
*East Carolina University* Greenville, NC  
Fall 2017- Spring 2021  
3.0/4.0 GPA

**Associate of Science- General Education**  
*College of the Albemarle* Elizabeth City, NC  
2016-2017  
3.8/4.0 GPA

## Skills:

- **Technology proficient** (Software, Hardware, Bash/Shell, Citrix Workspace, VMware)
- **Programming Language proficient** (Python, Java, C+, CSS/HTML5/SAS, JavaScript, Kotlin, Swift, Prolog, Haskell)
- **Database Creation and Management Experience** (SQL, SQLite, MS Access)
- **IoT/Virtualization Experience** (Balena, Docker, Kubernetes, Splunk)
- **Operating System proficient** (Windows, Mac, Linux, Raspbian, BalenaOS)
- **Microsoft Office proficient** (Excel, Word, PowerPoint, Outlook)

## Work Experience:

### Application Support & Development Internship

Summer 2020

8 Week Program, – ***First Citizens Bank – Raleigh, NC***

- Determined software requirements for current banking needs
- Communicated requirements to various organizations within the bank
- Prepared timeline for development of various new software tools
- Determined plans for the implementation of new software tools as well as facilitating change. (**change management**)

- Explored various Diversity and Inclusion initiatives
- Maintained current bank systems by providing outlet for correction of user-based exceptions
- Provided support for users of bank systems while also initiating clear follow-up communications to verify the success of support.

### Academic Research - Multidisciplinary(ITCS/CS)

August 2019 – Current

***Dr. Ciprian Popoviciu - East Carolina University - Greenville, NC***

- Designed, with several other students, a collection of Raspberry PI units mounted to Cisco WebEx technology to monitor network connectivity issues in the hopes of preventing/mitigating downtime.
- Designed, **implemented and managed teams website and web-based interfaces** to provide a dashboard for user accessibility
- Handled set-up of various physical and virtual labs.
- Utilized SAS, Linux, Balena, Raspbian, IPERF, Cisco AnyConnect software
- Utilized various open-source technologies, such as but not limited to, Docker, Phoronix Test Suite, BalenaOS

<https://pi-pirates-ecu.github.io/PI-Pirates-Site/>

### Freelance Software Developer (Mobile)

January 2020 – Current

***Greenville, NC***

- Communicated with customers regarding application features and timeline.
- Created development and iteration plan for logic/coding procedure
- **Documented procedures** for further development of product
- Managed **debugging** process, as well as, including plans for further iterations.
- Delivered product based on **communicated timelines**
- Maintained communication with customers to verify satisfaction

### **Engineering Internship**

Summer 2017, 2018 & 2019

#### **10-12 Week Program, – Dominion Energy - Elizabeth City, NC**

- Determined facility design for material, time and cost estimates for the construction and maintenance of residential electrical constructions; as well as relocation of distribution facilities for customers.
- **Maintained communication with customers** to provide service in a time efficient manner
- Inspected work request job sites, determine metering requirements and prepare sketches of property and service agreements.
- Prepared joint use notification CATV permits, underground agreements, revenue calculations, etc.
- Obtained right-of-way and easement agreements and highway/railroad permits.
- Assisted in service restoration in the field during outages.

### **Customer Service & Main Office Assistant**

January 2018 – January 2020

#### **Campus Recreation and Wellness Center - East Carolina University - Greenville, NC**

- Communicated with customers in person and via telephone and direct them to appropriate areas. Permitting access to the facility.
- Used critical thinking skills to handle situations or conflicts that arise and communicate with other staff to resolve any issues.
- Demonstrated knowledge of CRW programs & services including but not limited to: membership options/prices, CRW facilities/procedures, program areas, and professional staff area of responsibilities.
- Handled various payment methods for guest passes, late/lost fees, memberships, personal training sessions, aquatics activities, safety class registrations and lock sales throughout the day. Practice integrity while balancing the drawer at the beginning and end of shift.
- Worked weekends and holidays (even when classes are not in session) on a rotating basis.
- Properly document lost and found items.

### **Publications:**

Sawyer, Colby Lee. 2020. *Deploying a Network Management Overlay for Education Video Conferencing Services*. 2020 ASEE Virtual Annual Conference. <https://www.asee.org/public/conferences/172/papers/29604/view>

Sawyer, Colby Lee. 2020. *A Multidisciplinary Project: Deploying Edge Computing to Augment Endpoint Functionality*. 2020 ASEE Virtual Annual Conference. <https://www.asee.org/public/conferences/172/papers/29638/view>

**Languages-** English-Fluent, Spanish- Competent, ASL- Competent