

Carter Buckner

c: 870-671-8652 | e: cb051@uark.edu | www.linkedin.com/in/CarterBuckner/ | https://github.com/cb051

Education

University of Arkansas, Fayetteville (UARK) | Dec 2021 | B.S. Computer Science | Minor: Music | Cum GPA: 3.479

Relevant Courses

- Database Management*
- Digital Design
- Computer Organization
- Software Engineering*
- Operating Systems
- Computer Networks
- Algorithms
- Formal Languages and Computability
- Cryptography
- Mobile Programming
- Artificial Intelligence

* courses taken at University of Nicosia (Nicosia, Cyprus)

Projects

Mobile App, Teachers Support Teachers (Texarkana, AR) Jan 2020-present

- Designed and developed a cross-platform app for a local for-profit organization supporting teachers (~300 teachers in and around Arkansas)
- Enables users to interact with and donate to the organization
- Planned deployment in Fall 2022

Mobile App, CheroKey Dec 2020-May 2021

- Designed and developed a cross-platform game (Flutter/Dart) with a local Cherokee teacher
- Enables Beginner and Intermediate level students to study Cherokee vocabulary fundamental

Work & Research Experience

Research Assistant, Technology Privacy University of Arkansas Jan-present

- Worked with Dr. Qinghua Li on a government funded project to secure the energy grid
- Project explored security vulnerabilities for solar farms
- Tested different security vulnerabilities for a web application used on the project
- Gave security minded policy recommendations for private entities in energy sector
- Track current policy recommendations around algorithmic and AI fairness

Technology Software Intern, Northrop Grumman Corporation Summer 2019-2021

- Developed a regression test framework for updates to B-2 aircraft software
- Worked with a team to develop a database tool for internal career development
- Created and taught software courses for internal career development
- Developed components of a web-based form
- Tested components manual with SQL database entries

Marketing Intern, Washington County Democrats Feb 2019-2020

- Developed e-communications, graphics for social media platforms and party website

Research Assistant, AESIR University of Arkansas Jan-Dec 2019

- Worked with Dr. Alex Nelson on setting up lab supplies for an encryption project
- Project explored using encryption to mask personal identifiable data from third parties
- Eventual applications would include encrypting sensor health data in wearables before sharing to third parties

Facilitator, University Community Talks (Pulse) October 2018

- Worked to create and facilitate conversations on how to address campus sexual assault
- Co-organized and hosted a panel with local community members and university officials on the topic
- Critically viewed and discussed current university policies on the topic

Research Intern, IOT-SITY, University of California, Irvine Summer 2018

- Conducted developmental research in creating a human eye prosthetic with tracking capabilities
- Annotated existing documentation for the hardware and software used
- Developed image processing and Bluetooth communication functions between

- an Arduino and Raspberry PI (IoT research project)
 - Presented research at UC Irvine, University of Arkansas, and the University of Southern California
- Program Manager**, Verizon Innovative Learning **May-June 2018**
- Developed and taught program curriculum to teaching staff
 - Assisted behavioral research done by the team to understand how a STEM and arts curriculum can better benefit young students
 - Served as intermediary for companies and university relations for technology and product usage
 - Served over 100 middle school youth and parents through faculty leadership and curriculum training, e-communications/graphics, logistics, and youth projects
- Facilitator**, Human Rights Campaign (HRC Field Office, Little Rock, AR) **January 2018**
- Led group discussions on how youth can organize and take action within their communities
 - Discussed effective fundraising strategies to local Arkansas youth and adults

International Experience

- Winery Database**, Database Management Systems (University of Nicosia – Nicosia, Cyprus) **Feb-Jun 2020**
- Created a MySQL database for fictional Cypriot winery
 - Defined meaningful end-user queries
- Tech/UI Design Lead**, Software Engineering (University of Nicosia – Nicosia, Cyprus) **Feb-June 2020**
- Worked with a local Montessori school to create administrative desktop app
 - Led UI layout design and implementation process with customer and four-person team
- Semester Abroad, University of Nicosia**, Nicosia, Cyprus **Spring 2020**
- As a student, worked with a local software team
 - Participated in the local music scene
 - Went to community talks on Cypriot policy with regard to refugees
 - Took classes at one of the local universities

Extracurriculars, Volunteerism, and Leadership

- Out in STEM (oSTEM)** *Aug 2019-present*
- Member of an affinity group for queer/LGBTQ+ students in STEM
 - Attended meetings geared towards increasing LGBTQ+ representation in STEM
- Hour of Code** *Dec 2019-present*
- Volunteered in elementary schools teaching coding fundamentals
- Louis Stokes Alliance for Minority Participation (LSAMP)** *Aug 2017-present*
- Member of a national network for minorities in STEM
 - Attended meetings geared towards increasing minority research and graduate opportunities
- National Action Council for Minorities in Engineering (NACME)** *Aug 2017-present*
- Member of national network for minorities in Engineering
- National Society of Black Engineers (NSBE)** *Aug 2017-present*
- Board member and general member of group supporting black engineers
- University Symphony Orchestra** *Aug 2017-present*
- Principal bass for university symphony
 - Performed throughout the campus and larger community
- Eagle Scout Rank, Boy Scouts of America** **April 2017**
- Built a gazebo for a local school turned park
 - Organized donations and volunteerism from people throughout the community
 - Held numerous leadership positions