CFIC@SHSU

Sam Houston State University

Cyber Forensics Intelligence Center Newsletter

TABLE OF CONTENTS

HIGHLIGHTS

- Publications are increasing! The CFIC is working with students and faculty to pursue peer reviewed publications.

- Mr. Dathan Bennet with Netflix is this month's highlighted CFIC and Computer Science Advisory Board Member.

- The CFIC is recruiting for the next National Collegiate Cyber Defense Competition Team.

- Dr. David Burris is this month's highlighted Department of Computer Science Faculty Member.

DIRECTOR'S MESSAGE

The CFIC is proud to be working with doctoral students and academicians from partner universities to publish peer-reviewed journal articles and conference papers. Recent publication topics include investigations into: *Near-Real-Time IDS for the U.S. FAA's NextGen ADS-B, A Forensic Image Generator for Android Device Education, An Autopsy Module for Distributed Identification of E-mail Files from Disk Images, and A Digital Forensics Investigation of a Smart Scale IoT Ecosystem*.

Collaborations provide opportunities for students, academicians, and industry partners to explore technical and procedural solutions to new and existing problems, identify and explore technology vulnerabilities, and establish the foundational collaboration relationships necessary to pursue external funding prospects.

As the new semester approaches, it is an exciting time for students and faculty to engage in research projects, competition activities and build collaborations. The CFIC looks forward to working with you this fall.

Advisory Board Highlight: Dathan Bennett

Dathan received a Bachelor of Science degree in Computer Science from the University of Houston in 2004 and his Master of Science degree in Digital Forensics from Sam Houston State University in 2008.

After working at Sam Houston State University for six years, he transitioned to Silicon Valley by taking a position as a Forward Deployed Engineer at Palantir Technologies. The position focused on data analytics product development primarily in the defense, intelligence, and law enforcement sectors.

Since 2015 he has worked in payment processing, first as Staff Software Engineer at Udacity, where he ran the Payments Engineering team; and currently as Senior Software Engineer at Netflix, where he is primarily in charge of payment integrations for the Asia Pacific region.

Computer Science Faculty Member Highlight: Dr. David Burris

Dr. Burris's teaching career includes the application of computers to scientific/engineering applications, business data, and systems programming. Industrial experiences include designing nuclear reactor emergency shut-down systems, petrochemical process control, and applications in thermodynamics.

Additional project experiences include NASA (shuttle and space station), White Sands Missile Range, NOAH, numerous applications in law enforcement, inventory/tracking systems for weapons of mass destruction (nuclear/biochemical), aerospace, mapping electromagnetic fields for ICBM guidance systems, seabed mapping (commercial and submarines), as well as Army, Navy, and Air Force project work.

Dr. Burris has spoken at NISOD, J/CCPAT, AASUC, and other educational venues. In addition, technical presentations, especially in cryptography and steganography, have been made for law enforcement, including the FBI, InfraGard, and the Information Systems Security Association.

Courses taught in the Information Assurance track include COSC 2347 C with Linux, COSC 3319 Data Structures, Cryptography and Network Security DFSC 3319, and COSC 4319 Software Engineering.

CCDC Team

The Collegiate Cyber Defense Competition is a national competition. The competition is conducted in a simulated business network environment that test operational competencies and security capabilities.

There are three stages to the competition that include virtual qualifiers, regionals, and nationals. Last year, SHSU's CCDC team made it through the virtual qualifiers and progressed to regionals.

We are recruiting SHSU's next team!

If you are looking for a fun, challenging, and rewarding experience that potentially benefits future career opportunities, contact the CFIC to participate in the 2022 CCDC competition!

Additional information on the CCDC competition is available at: https://www.nationalccdc.org/

Partnerships

Internship Program

Organizations partner with the Center to provide on-site internship experiences to students enrolled in the Department of Computer Science at SHSU to assist in workforce development.

*Check the CFIC Web Site for Opportunities

Capstone Project

Provides students with the opportunity to interact with industry while simultaneously introducing them to practical research. These projects are conducted in conjunction with industrial partners at no cost to the organization.

Seminar Presentations

Industrial partners are invited to make presentations during the fall and spring semesters on challenges that they face from cybersecurity, digital forensics, and information assurance perspectives.

CONTACT THE CFIC

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CFIC MISSION

To conduct world-class, leading cyber forensics and security research, provide real-world training solutions, investigate cutting edge cyber forensic investigation resources; promote professional networking; and participate in open data exchanges.

GOALS

To bring together leading industry participants, practitioners, and faculty members from a variety of disciplines to research cyber forensic and digital security topics that are of interest to governmental, commercial and legal communities in order to:

- Deliver innovative, avant-garde, pioneering research expertise in security and forensics that solves real-world problems
- Partner with governmental, commercial, and legal communities to improve workforce education through world-class training programs
- Provide state-of-the-art research facilities, equipment, and training that empowers faculty to pursue substantial research funding
- Deliver to governmental, commercial, and legal communities a collaborative operational and investigative ecosystem for identifying and resolving cyber forensics and security challenges

Please follow us @

Directions

I-45, Huntsville, TX 77340 to Avenue I, Huntsville, TX 77340

1. Depart I-45, Huntsville, TX 77340
2. Turn East onto US-190 [SR-30] for 1.1 miles.
3. Turn Right(South) onto SR-75 [N. Sam Houston Ave] for 0.4 miles.
4. Turn Left(East) onto 16th St. for 0.2 miles.
5. Turn Right(South) onto Avenue I for 0.1 miles.
6. Arrive Avenue I.
The Cyber Forensics Intelligence Center is located in AB1 Room 208