TRAN HUYNH

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Education

Arizona State University at Tempe

Expected May 2023

Master of Science in Robotics Autonomous System (Artificial Intelligence)

California State University Sacramento Bachelor of Science in Computer Science

Jan 2018 - Dec 2020

Dean's Honor Roll

• GPA: 3.911 / 4.0

Minor in Mathematics

Skills

Programming: C, C++, Python, SQL, Racket, Java, HTML, CSS, Bootstrap, React

Technologies: Jupyter Notebook, MySQL, Bash, Microsoft Office Suite, Linux/Unix, Window

Language: Bilingual Vietnamese / English

Project Experience

Sec Tutor Oct 2019 – Dec 2020

• Design, build, and assess online learning tool for secure programming. This tool will help user learn, practice about secure programming from each other and from experts.

- Develop questions bank base on the misconceptions and different computer system security topics.
- Construct intelligence tutorial system to provide tests based on user's current understanding level.

Optimizing the Magic Square Problem Using Genetic Algorithms with DEAP N

- Apply Genetic Algorithm and DEAP library to return an N*N size magic square giving an N*N random array of unique number from 1 to N*N.
 - Correctly detect the 3x3 magic square after 5th generation, 4x4 magic square after 24th generation.
 - The project is implemented using Python and DEAP library in Jupyter Notebook.

Performance Analysis of Lightweight Ciphers on IoT Devices

Jan 2020 - Dec 2020

- Analyze the hardware and software efficiency of lightweight symmetric ciphers (Presents, Clefia, Grain, Mickey, and Chacha20) on Raspberry Pi 4.
- Utilize the OpenSSL library (version 1.1.1) to run different modes of operation of AES and 3DES ciphers with Bash script. Other ciphers are implemented in C programming language.

VTI – Voice to Image

Oct 2018

- A small web app that receives words (spoken by user) and transfers them to image. The goal of application is to help children with autism to communicate, learn, and remember easier.
- The application is implemented using HTML, CSS, and JavaScript.

Publication and Presentation

• Jericho Rivero, **Tran Ngoc Bao Huynh**, Angelica Smith-Evans, Ong Thao, and Yuan Cheng, Analyzing the Efficiency of Lightweight Symmetric Ciphers on IoT Devices, Computer Science Conference for CSU Undergraduates, 2021. (Accepted)

Working Experience

Research Assistant

Computer Science Department, Sacramento State

Oct 2019 – Dec 2020

- Research and analyze the misconceptions that students have when they are programming.
- Generate questions to provide information and raise awareness for students of secure programming.
- Implement and design front end website for the project.

Teacher Assistant

Computer Science Department, Sacramento State

Feb 2019 - May 2020

- Assist classes of total 100 students in grading student assignments.
- Provide solutions and explanations for error in their code and assignments. Provide feedback for improvement.
- Prepare overall progress reports on students' assignments regularly to update their performance with professor.

Activities and Accomplishments

• ICPC Pacific Northwest Region (Participation)	March 2021, Nov 2019
 Cyber Fast Track (Semi-Finalist, top 540 over 13,280) 	Jul 2019
 ICPC Programming contest at Sac State (Third Place) 	March 2019
 Sacramento State Hornet Hacks (Excellence Human Energy Award 	
By Chevron (VTI – Team Project))	Oct 2018
 ACM Programming contest at Arkansas State University (Second Place) 	Nov 2017

Leadership

President of Badminton Club

California State University Sacramento

Aug 2019 – Dec 2020

- Set up courts and meeting weekly. Ensure safety for participants.
- Assist club officers during organization events.
- Create club T-shirts and motivate team members.
- Maintain regular communication with members, advisors, and other school associations.

Treasurer of Badminton Club

California State University Sacramento

Aug 2018 - Jul 2019

- Manage Club budget and ordering Club's equipment (Rackets, Birdies, Strings, and Nets)
- Promote organization on campus.
- Coordinate events and tournaments.

Community Services and Honors

• Vietnamese Interpreter and volunteer at South Sacramento pop-up Pannell Covid-19	
Vaccine	April 2021
 Volunteer at Coalition of Concerned Medical Professionals Sacramento 	Sep 2019 – Dec 2019
 Volunteer at World Language Day – Vietnamese Country Table Coordinator 	
At Sacramento State, CA	Nov 2019
 Volunteer at Harvest Sac State, Sacramento CA 	Feb 2018
 Ghost writer (note taking) for students with disabilities at Arkansas State University 	Aug 2017 – Dec 2017
 Volunteer at Arkansas Science Festival and Blood Drive 	2017