Chenyu Gu

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Education Background

New York University *New York, US* **09/2022-Present**

Master of Science, Cybersecurity

Sichuan University (SCU) *Chengdu, Sichuan, China* **09/2018-06/2022**

Bachelor of Engineering, Computer Science and Technology

Overall GPA: 3.5/4.0

Scholarship: 2nd class individual scholarship of SCU (11/2019)

Skills

Skilled: C, Java, Javascript Proficient: C++, Python, Matlab

Research Experiences

A Lightweight Phishing Website Detection Algorithm by Machine Learning **07-10/2021**

Online Program, Supervisor: Di Wu, Senior Engineer, China Academy of Information and Communications Technology

Published Paper: Chenyu Gu. "A Lightweight Phishing Website Detection Algorithm by Machine Learning", *CONF-SPML*.

- Conducted literature review about the detection methods of malicious and phishing websites
- Proposed domain name detection using MinHash Signature, page content detection using GIST vector, identification of the semantics of web pages using the word-embedding method
- Compared the speed and accuracy of clustering methods, and adopted XGBoost to achieve the classification of GIST vectors and web feature vectors

Fast website detection algorithm based on GIST global features and XGboost **03-06/2022**

Undergraduate Thesis, Supervisor: Xinrong Jiang, associate professor, Sichuan University

- Completed the code implementation of the method proposed in my previously paper: *A Lightweight Phishing Website Detection Algorithm by Machine Learning*
- Classifying web pages using XGBoost and GIST and URL features
- Collected a large amount of visual information on both malicious websites and normal websites using an automated Python spider based on.

Elbow Digital Twin system based on 3D-modeling and deep learning **01-09/2021**

- Searched and read literature and relevant papers to understand the structure of the human elbow
- Conducted physical and mathematical modeling of the elbow of the human body, to obtain the mathematical models of major joints and muscle groups
- Built relevant digital models according to the established mathematical models, used 3dxMAX to render and process the model
- Imported the digital model into Unity for simulation

Research Project cooperated with Sun Caper Data Co., Ltd **06/2021**

Project: Enterprise Recognition Management System with Separated Front- and Back-end

- Developed the front page (including login page, welcome page, and function page) based on the Vue2 framework
- Added live 2D model to the welcome page
- Solved the security measures of the SpringBoot-based back-end that forced users to log in when accessing the front-end page with other teammates

Competitions

Successful Participant in MCM/ICM 04/2021

2nd Prize in the Asia and Pacific Mathematical Contest in Modeling 01/2021

Platforms:

- Experienced in Windows development especially in ATL and MFC;
- Experienced in using Linux;
- Experienced in Web Frontend and Backend (CSS/JS/HTML and Django);

Extracurricular Activities

Alibaba Campus Ambassador of SCU **04-06/2021**

- Responsible for Alibaba's publicity work in Sichuan University, such as the publicity of spring campus recruitment for doctoral students, postgraduate students, and undergraduates, and internship recruitment through contacting SCU departments
- Put forward suggestions on Alibaba's recruitment activities, and communicated with Alibaba campus ambassadors of other universities about recruitment activities