

Xuhua Sun

Target: Software Engineering Development (Intern)

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Baltimore, United States 📍

EDUCATION

M.S. in Security Informatics, CS Dept.

Johns Hopkins University

08/2020 - 12/2022

Baltimore, MD

Related Courses

- GPA: 3.94/4.0
- Object-Oriented Software Programming
- Web Security
- Security & Privacy in Computing
- Network Security
- Deep Learning
- Modern Cryptography
- Intro. to Algorithms

B.S. in Electrical and Computer Engineering

Shanghai Jiao Tong University

09/2016 - 08/2020

Shanghai, China

Related Courses

- Artificial Intelligence
- Data Structure
- Computer Organization
- Intro. to Programming

Exchange in Computer Science Dept.

University of Hong Kong

09/2019 - 12/2019

Related Courses

- Database Management
- Operating System
- Computer Graphics
- Functional Programming

WORK EXPERIENCE

Course Assistant in Intro. to Algorithms

CS Dept., Johns Hopkins University

08/2021 - Present

Baltimore, MD

Intro. to Algorithm (EN601.433/633, Fall 2021), instructed by Dr. Michael Dinitz

Tasks

- Launch Office Hours for 2 hours per week
- Create Rubrics for and Grade 9 assignments and the final exam
- Answer questions from 100+ students through Campuswire's platform, Email and Direct Message

AWARDS

Undergraduate Excellent Scholarship, Shanghai (11/2019)

awarded by Shanghai Jiao Tong University

Fung Scholarship, Hong Kong (09/2019)

awarded by Victor and William Fung Foundation and the University of Hong Kong

PROGRAMMING SKILLS

Python

C/C++

HTML

SQL

Matlab

JavaScript

PROJECTS

Blue Jay Trade Platform for students (Baltimore)

(09/2021 - Present)

- **An Object-Oriented Programming Project in Johns Hopkins University**
- Manage a group of 6 members and perform 5 iterations under the agile development cycle
- Write the main program for the back-end with Python/Django
- Utilize the APIs from the university to register and authenticate student accounts
- Expect to cover a total of 20k+ students in the university and expand to inter-university users in the future

Segmentation in Fluorescent Cell Images (Remote)

(04/2021 - 05/2021)

- **A Deep Learning Project in Johns Hopkins University**
- Pre-processed a relatively large image dataset (including 1000+ images with different sizes (> 500 KB each) and resolutions)
- Applied and modified the Multi-layer Hierarchical Sampling model open-sourced by NVIDIA
- Evaluated results with an accuracy of > 90% and compared with the existing U-Net model (> 75%) to prove the improvement

Capture-The-Flag Construction Project (Remote)

(02/2021 - 05/2021)

- **An Ethical Hacking Project in Johns Hopkins University**
- Created 10 flags including topics around cryptography, LDAP, SQL injection, Web App, Steganography, OS vulnerability
- Serialized 4 different VMs (with OS of Windows, Ubuntu, Kali) under the same network

"Coro-Nah", a Public Safety Rating System (Remote)

(09/2020 - 09/2020)

- **A 2-day Hackathon project in HopHacks Fall 2020**
- Wrote the main program for the back-end with Python/Flask
- Utilized Google Map API to get detailed geographical information of dozens of public place categories within a radius of 40+ kilometers around the campus
- Wrote 5+ testcases to simulate the users' possible operations in real-life

LANGUAGES

English

Full Professional Proficiency

Chinese

Native or Bilingual Proficiency

Japanese

Limited Working Proficiency