ZHIMING XU

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University of Virginia	Charlottesville, VA
Master of Computer Science. GPA: 4.0/4.0	Aug. 2021 – May 2023 (Expected)
Doctor of Philosophy. Research area: data mining and self-supervised learning	Aug. 2021 – May 2022 (Withdrawn)
Nanjing University Bachelor of Science in Computer Science, Elite Program (top 10% in NJU)	Nanjing, Jiangsu Sep. 2016 – Jun. 2020
University of California, Berkeley Visiting Student in Computer Science	Berkeley, CA Jan. 2019 – May 2019
PUBLICATIONS	-
 Shuang Zhou, Qiaoyu Tan, Zhiming Xu, Xiao Huang, Fu-Lai Chung, Subtractive Ag Detection, ACM International Conference on Information and Knowledge Management Zhiming Xu, Xiao Huang, Yue Zhao, Yushun Dong, Jundong Li, Contrastive Attribut Augmentation, Pacific-Asia Conference on Knowledge Discovery and Data Mining (PA) 	nt (CKIM), 2021 Ited Network Anomaly Detection with Data
Working Experiences	
R&D Engineer Intern	May 2020 – Sep. 2020
Lightspeed and Quantum Studios Group, Tencent Games	Shenzhen, Guangdong
 Mentor: Bohan Zhan Scraped a dozen of live-streaming/social platforms to obtain multilingual corpus Wrote scripts to automatically access cloud database and built web application to Applied natural language processing models to analyze players' opinions on news 	visualize stored data with flask
Software Engineer Intern	Jul. 2019 – Sep. 2019
China Global Store, Amazon	Chaoyang, Beijing
 Line Manager: Xin Ren Wrote Python scripts to manipulate data stored in DynamoDB and generate busin Finalized A/B tests of China retail websites, delivered the desirable behavior to n Expanded machine learning-backed features to newly launched marketplaces in or 	nillions of end users
Research Assistant	Oct. 2020 – Jun. 2021
Department of Computing, The Hong Kong Polytechnic University	Kowloon, Hong Kong
 Advisor: Assistant Professor Xiao Huang Researched on self-supervised anomaly detection, resulting in one premier confes Participated in KDD Cup, built a knowledge graph link prediction model that scale 	rence publication (CIKM'21) led up to 80 million nodes
Research Assistant	Aug. 2021 – Mar. 2022
Department of Electrical and Computer Engineering, University of Virginia	Charlottesville, VA
 Advisor: Assistant Professor Jundong Li Researched on anomaly detection with contrastive learning, resulting in one pref Designed a graph transformer neural network to predict physical and chemical p 	nier conference publication (PAKDD'22) roperties of molecules
Projects 🗖	
 TrustZone Object Detection C, ARM64 Assembly, TrustZone O code Build an object detection application inside ARM TrustZone, a trusted executed e Accept AES-encrypted images from outside TrustZone, decrypt and detect objects 	nvironment on Android smartphones s on them, then encrypt and return the results
Quora Insincere Question Detector Python, MXNet, Flask, AWS ♀ code ♀ demo • Implement text classifiers with LSTM, text CNN, and BERT based on 1 million Qu	

• Fine-tune model structures and parameters. Achieve 99% accuracy in the test set, and develop a demo WebApp with Flask

Particle-based Fluid Simulator | C++, OpenGL, Physical Engine | 🗘 code | 🛗 demo

- Build a particle engine to simulate particles' mutual interactions caused by both intrinsic and extrinsic forces
- Add lighting effects with shading language, and draw simulated animation with OpenGL

Simplified Operating System | C, Linux, bash, git | O code

- Develop a simplified OS featured with memory hierarchy, multi-thread scheduling, and locking
- Implement several shell tools, including read-eval-print loop, memory modifier, etc. with Linux system APIs

NJU Emulator | C, x86 Assembly, Linux, Docker, git

- Build a reduced x86 emulator, able to simulate the execution of IA32 instructions via C program
- Implement a simplified operation system featured with virtual memory and time-sharing multi-tasking

SKILLS

Languages: Python, C/C++, Java, JavaScript, Go

Frameworks: PyTorch, TensorFlow, MXNet, Flask, WebSocket

Developer Tools: git, bash, AWS, DynamoDB, Google Cloud Platform, VS Code

Libraries: PyTorch Geometric, Deep Graph Library, pandas, NumPy, Matplotlib, scikit-learn, SciPy