

Szu Kai (Peter) Yang

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EDUCATION

Purdue University, West Lafayette, IN Master of Science in Computer Science	May 2020
Purdue University, West Lafayette, IN Bachelor of Science in Computer Information Technology	May 2018

EXPERIENCE

Expedia Group Intern, Site Reliability Team - (Python, HTML, JavaScript, Django)	Springfield, MO May 2019 - Aug 2019
<ul style="list-style-type: none">Developed and designed Expedia Partner Solution customer facing API service status page and management pageConstructed infrastructure to run on Amazon Web Service via AWS CloudFormation and utilizing AWS services in status pageWorked with agile team to deliver secure and reliable web page to customerLessened \$18,000 company expenseIntegrated Expedia travel agent price calculation API with AWS services	
Graduate Teaching Assistant TA Operating System - (C)	West Lafayette, IN Jan 2019 - May 2019
<ul style="list-style-type: none">Instructed lab sections for CS 35400 - Operating System which covers operating system architectures, processes, inter-process communication, inter-process synchronization, mutual exclusion, deadlocks, memory hierarchy, virtual memory, CPU scheduling, file systems, I/O device management, securityWorked on open source operating system XINU, an compact kernel for embedded systemsDeveloped Bash script to test and grade student's XINU	
Quan Industrial Consulting Intern, Software Development - (C, Python)	New Taipei, Taiwan Jun 2018 - Aug 2018
<ul style="list-style-type: none">Worked on Internet of Things (IOT) project sponsored by National Industrial Development Bureau of Taiwan, R.O.CInvolved in product development cycle including capturing user needs, designing, coding, testing and integrating and writing documentation, in a team environmentIncorporated application layer protocol, MQTT, onto device with limited internet connectivity in CIncreased performance by 93 times fasterPresented in National Innovation Technology Expo 2018	

SKILLS

- Programming Language:** Proficient: Java, Python, C, C++, BASH, Swift, C#
- Database:** MySQL, Oracle SQL

PROJECTS

Simpson Image Recognition and Generation Generative Adversarial Networks [GAN] - (Python, Pytorch)	Oct 2018 - Dec 2018
<ul style="list-style-type: none">Built and trained Deep Convolutional Generative Adversarial Network and Boundary Equilibrium Generative Adversarial Network with Pytorch in PythonGenerated entirely new Simpsons character from existing Simpsons characterAchieved high image quality Simpson character that looks alike Simpsons characters	
Convolution Neural Network CIFAR-100 Image Detection and Classification - (Python, Pytorch)	Sep 2018 - Oct 2018
<ul style="list-style-type: none">Implemented a Deep Learning LeNet-5 Network Architecture that train and validate on CIFAR-100 dataset with Pytorch in PythonClassified objects in images out of 100 different classesEngineered OpenCV with CNN to classify objects in real time through WebCam	
CERIAS Benedor TSE Bank Mobile Payment P2P Financial Transaction - (Python, Swift)	Jul 2017 - Nov 2017
<ul style="list-style-type: none">Developed behavior-based and regression testing script in Python for 12 RESTful APIsBuild client-side code on iOS (in Swift) to interact with existing server using the 12 RESTful APIsSucceeded with an extend of sponsorship from CERIAS partnerDemo: https://goo.gl/BPpsDj	
Web Crawler and Search Engine Crawl information from a Root URL - (C++)	Jun 2017 - Jul 2017
<ul style="list-style-type: none">Developed an web crawler (in C++) that retrieves more than 100 URLs and descriptions of the siteConstructed HashTable, AVL, Heap and Resizable Array data structure for information crawled from web	