

1 Bayard Rd, Apt 1, Pittsburgh, PA 15213

EDUCATION.

University of Pittsburgh

Pittsburgh, PA, USA

M.S. IN INFORMATION SCIENCE, GPA 3.86

Aug. 2018 - Exp. May. 2020

Database, Web Technologies, Client-Server System, Cloud Computing, E-Business, Human Factors in Systems

Central South University

Changsha, China

B.S. IN INTERNET OF THINGS, GPA 3.68

Sep. 2014 - Jun. 2018

Operating System, Compiler, Data Structure, Algorithms, Computer Networks, Wireless Networks, Database, Sensor Technologies, Distributed System

SKILLS

Languages Python, JAVA, C/C++, Go, JavaScript, HTML, CSS, Erlang, Scala, LaTeX

Environment and Framework Node.js, Flask, Django, Vue.js, Angular, Spring, JSF, Caffe, TensorFlow, MXNet, OpenCV, Hadoop, Spark Systems and Tools Linux, macOS, Windows, Android, MySQL, MongoDB, CouchDB, Cassandra; Git, Docker, Kubernetes, AWS

EXPERIENCE

Digital Vision and Entertainment Lab, Chinese University of Hong Kong

Shenzhen, China Mar. 2018 - May. 2018

SOFTWARE ENGINEERING INTERN

- · Optimized gateways performance by configuring Linux files; deployed projects on multiple nodes in **Docker Swarm**
- Investigated Image Recognition and Segmentation: R-CNN, YOLO, SSD; optimized an Instance Segmentation algorithm of segmenting baby portrait by MXNet, with precision of 0.95 and cost of 1.0 s/image on average
- Designed an algorithm to make transition from foreground (baby) to background much more natural with OpenCV
- Implemented a website for semi-automatically labeling portrait images with Django; developed a crawler to acquire raw data

Briup Technology, Inc. Kunshan, China

SOFTWARE ENGINEERING INTERN

Jun. 2017 - Jul. 2017

- Designed and optimized an auto-car transportation system by dividing it into 3 layer: application layer for Client and Server, network layer for communication by TCP, and sensor layer connected by ZigBee
- · Designed road map and implemented operations of setting destinations, tracking location, controlling speed and monitoring traffic by Qt
- · Implemented Server side functions like interacting with Clients, collecting data and giving orders to lower systems, managing traffic flow by Java
- Implemented car features like automatically tracking paths, avoiding obstacles, detecting traffic lights by programming with C, STM32, RFID

PROJECTS.

Hotel Booking System

Pittsburgh

INDEPENDENT PROJECT

Jan. 2019 - Apr. 2019

- · Designed and Built different modules with MVC concept of Spring, including Search Engine and Recommendation System
- · Enhanced security of the system by implementing HTTPS; enhanced performance of operating data by using EJB, JPA; solved concurrency problems from multiple data sources by using XA transactions
- Stored log on the cloud built by Hadoop on Kubernetes. Processed and analyzed log data by Spark RDD

Postify Music Pittsburah

CORE MEMBER

Oct. 2018 - Nov. 2018

- · Designed the social platform to publish feeds, listen to recommended music, add friends, and chat online or offline, etc
- Implemented 40+ RESTful APIs on the Server side by Node.js, using Alibaba OSS for storing streaming media file on the cloud, MongoDB for storing text data, JSON Web Token for access verification, WebSocket for full-duplex communication
- Developed neat and well-formed front-end separate from back-end by **Vue CLi**, implementing 20+ components like homepage, music player, friends lists, etc.

GreenLife, An Online Market

Pittsburgh

GROUP LEADER

Oct. 2018 - Dec. 2018

- · Provided functions such as searching and purchasing items, checking history; developed another interface for administrators to manage data
- · Developed server side with Flask, WTForms, Session; stored and operated data with MySQL CRUD and Transaction; built front-end by JQuery
- Enhanced performance during concurrent requests by using coroutine of Gevent; Added functionality like Hot swapping, Reverse Proxy

Aid Diagnosis System

CSU AI Lab, Changsha, China

MEMBER

Mar. 2017 - Aug. 2017

- Achieved an IoU of 0.839 by applying Fully CNN to brain tumor segmentation; Trained data in AWS
- · Investigated several Data Mining methods and designed a Predictive Clustering Tree for medical text classification to predict patients' diseases, with precision of 0.67